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PB-272 653

# Performance Evaluation of an Existing Lagoon System at Eudora, Kansas

Kansas Univ, Lawrence Dept of Civil Engineering

Prepared for

Municipal Environmental Research Lab, Cincinnati, Ohio

Sep 77

EPA-808/2-77-167  
September 1977

PB 272 653

Environmental Protection Technology Series



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| 1. REPORT NO.<br>EPA-600/3-77-167                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 4. REPORT DATE<br>September 1977 (Issuing Date)                                                    |                                                        |
| 2. TITLE AND SUBTITLE<br>PERFORMANCE EVALUATION OF AN EXISTING LAGOON SYSTEM AT EUDORA, KANSAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 5. PERFORMING ORGANIZATION CODE                                                                    |                                                        |
| 7. AUTHOR(S)<br>Ross S. McKinney                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 8. PERFORMING ORGANIZATION REPORT NO.                                                              |                                                        |
| 6. PERFORMING ORGANIZATION NAME AND ADDRESS<br>Department of Civil Engineering<br>University of Kansas<br>Lawrence, Kansas 66044                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 10. PROGRAM ELEMENT NO.<br>1 BC 611                                                                |                                                        |
| 11. SPONSORING AGENCY NAME AND ADDRESS<br>Municipal Environmental Research Laboratory--Cin., OH<br>Office of Research and Development<br>U. S. Environmental Protection Agency<br>Cincinnati, Ohio 45268                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 12. TYPE OF REPORT AND PERIOD COVERED<br>Final, 1974-1976                                          |                                                        |
| 13. SUPPLEMENTARY NOTES<br>Project Officer-Ronald F. Lewis (513-684-7644)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 14. SPONSORING AGENCY CODE<br>EPA/600/14                                                           |                                                        |
| 15. ABSTRACT<br>The wastewater lagoons at Eudora, Kansas, consist of three cells in series and were placed into operation in May, 1972. These lagoons were designed for a population of 4000. Currently, the sewered population of Eudora is 2200. The lagoons were studied in detail from September, 1974, through August, 1975. Analyses were made twice weekly for 8 months and daily for 4 months.<br><br>The results indicated the raw wastewater characteristics were normal for a small residential community. The wastewater lagoons produced typical results with temperature having the greatest impact on the microbiology and their biochemical reactions. The effluent quality from the treatment system was determined primarily by the growth and suspension of the algae. While the effluent BOD <sub>5</sub> generally met the 30 mg/l effluent criteria, the effluent suspended solids concentrations far exceeded the 30 mg/l criteria. Removal of the effluent suspended solids would produce a well treated effluent with a high degree of removal of nitrogen and phosphorus as well as BOD <sub>5</sub> . |  |                                                                                                    |                                                        |
| 17. KEY WORDS AND DOCUMENT ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                    |                                                        |
| A. DESCRIPTORS<br>Waste treatment<br>*Lagoons (ponds)<br>*Performance evaluation<br>*Design criteria<br>Chemical analysis<br>Physical tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | B. IDENTIFIERS/OPEN ENDED TERMS                                                                    | C. COSATI Field/Group<br>13B                           |
| 18. DISTRIBUTION STATEMENT<br>Release to Public                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 19. SECURITY CLASS (This Report)<br>Unclassified<br>20. SECURITY CLASS (This page)<br>Unclassified | 21. NO. OF PAGES<br>240<br>22. PRICE<br>PC A 11 \$1.00 |



EPA-600/2-77-167  
September 1977

PERFORMANCE EVALUATION OF  
AN EXISTING LAGOON SYSTEM  
AT EUDORA, KANSAS

by

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Contract No. 68-03-2059

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#### DISCLAIMER

This report has been reviewed by the Municipal Environmental Research Laboratory, U.S. Environmental Protection Agency, and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the U.S. Environmental Protection Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

## FOREWORD

The Environmental Protection Agency was created because of increasing public and government concern about the dangers of pollution to the health and welfare of the American people. Noxious air, foul water, and spoiled land are tragic testimony to the deterioration of our natural environment. The complexity of that environment and the interplay between its components require a concentrated and integrated attack on the problem.

Research and development is that necessary first step in problem solution and it involves defining the problem, measuring its impact, and searching for solutions. The Municipal Environmental Research Laboratory develops new and improved technology and systems for the prevention, treatment, and management of wastewater and solid and hazardous waste pollutant discharges from municipal and community sources, for the preservation and treatment of public drinking water supplies, and to minimize the adverse economic, social, health, and aesthetic effects of pollution. This publication is one of the products of that research; a most vital communications link between the researcher and the user community.

As part of these activities, this case history report was prepared to make available to the sanitary engineering community data on the operating characteristics of a three cell, series, domestic wastewater treatment lagoon and to present an evaluation of the data in relationship to the original design criteria.

Francis T. Mayo  
Director  
Municipal Environmental Research  
Laboratory

#### ABSTRACT

The wastewater lagoons at Eudora, Kansas, consist of three cells in series and were placed into operation in May, 1972. These lagoons were designed for a population of 4000. Currently, the sewer population of Eudora is 2200. The lagoons were studied in detail from September, 1974, through August, 1975. Analyses were made twice weekly for 6 months and daily for 4 months.

The results indicated the raw wastewater characteristics were normal for a small residential community. The wastewater lagoons produced typical results with temperature having the greatest impact on the microbiology and their biochemical reactions. The effluent quality from the treatment system was determined primarily by the growth and suspension of the algae. While the effluent BOD<sub>5</sub> generally met the 30 mg/l effluent criteria, the effluent suspended solids concentrations far exceeded the 30 mg/l criteria. Removal of the effluent suspended solids would produce a well treated effluent with a high degree of removal of nitrogen and phosphorus as well as BOD<sub>5</sub>.

This report was submitted in fulfillment of Contract 68-03-2059 by the University of Kansas under the sponsorship of the Environmental Protection Agency. Work was completed as of July 31, 1976.



## CONTENTS

|                            | Page |
|----------------------------|------|
| Disclaimer                 | ii   |
| Foreword                   | iii  |
| Abstract                   | iv   |
| Contents                   | v    |
| Acknowledgements           | vi   |
| Sections                   |      |
| I. Introduction            | 1    |
| II. Conclusions            | 2    |
| III. Recommendations       | 3    |
| IV. Description of Lagoons | 6    |
| V. Experimental Procedures | 8    |
| VI. Results                | 7    |
| VII. Discussion of Results | 31   |
| VIII. References           | 34   |
| IX. Appendix               | 35   |

#### ACKNOWLEDGEMENTS

The assistance of Mr. John Finnick and the City of Eudora, Kansas, who allowed their wastewater treatment lagoons to be examined is gratefully acknowledged. The assistance of Debi Heidgen, Ralph Gelvin, Kevin Baker, Rex Cox and Larry Wisdom in collecting samples and making the analyses was essential to the success of this project. The assistance of Mrs. Kathleen Boyd is also gratefully recognized.

## SECTION I INTRODUCTION

Lagoons have been widely used in the United States as low cost wastewater treatment systems for both domestic sewage and industrial wastes. Because of the simplicity of design and operation of lagoons little detailed operating data are available as to the biochemical changes which occur in the different lagoon systems or even as to the quality of effluent normally expected from lagoons. Barsom and Ryckman<sup>1</sup> examined the operational data from a number of lagoons and concluded that lagoons were not adequate for treating domestic sewage as far as effluent quality was concerned. The EPA criteria for secondary treatment effluents from municipal plants stipulated 30 mg/l BOD<sub>5</sub> and 30 mg/l suspended solids. In view of the importance of the sewage lagoons in wastewater treatment, a more detailed study of oxidation ponds was initiated in order to find out the biochemical reactions which occur in the various lagoon cells.

It was believed that detailed study of a typical sewage lagoon over a full year would yield data on the seasonal variations which could be expected. It was also hoped that the data could be correlated to the theory which had developed by experience over the years. Overall, the data should yield a better understanding of the design of sewage lagoons.

### Editorial Note

The definitions of secondary treatment for federal regulation of municipal wastewater treatment plant effluents has been or is being modified. The Federal Register Vol. 41, No. 144, Monday, July 26, 1976, pp. 30786-30789, contains amendments pertaining to effluent values for pH and deletion of fecal coliform bacteria limitations from the definition of secondary treatment. The Federal Register Vol. 41, No. 172, Thursday, September 2, 1976, contains proposed changes in the suspended solids requirements for small municipal lagoon systems serving as the sole process for secondary treatment of wastewaters.

## SECTION II CONCLUSIONS

The major conclusions reached from this study were as follows:

1. This 3 cell wastewater lagoon could not meet EPA effluent criteria for secondary treatment because of excessive suspended solids in the final effluent.
2. Living and dead algae are primarily responsible for the high effluent suspended solids.
3. Most of the waste organic stabilization took place in Cell 1 with algae recycling nutrients in Cell 2 and Cell 3.
4. Recycling of nutrients by algae results in a slow but steady reduction of nitrogen and phosphorus in the ponds.
5. Temperature was the major factor affecting the growth and predomination of the various species of bacteria and the die-off of fecal coliform bacteria.
6. If the suspended solids could be removed from the final effluent, it would meet EPA effluent criteria.

### SECTION III RECOMMENDATIONS

It is recommended that studies be expanded to find a simple, economic method for removing the suspended solids from the final effluent as this is the key to meeting EPA effluent criteria. Further studies on the protozoa and algae as well as bacteria would also lead to a better understanding of the population dynamics of wastewater ponds.



#### SECTION IV DESCRIPTION OF LAGOONS

The lagoon system used in this study was located in Eudora, Kansas and consisted of three cells operated in series. A schematic diagram of the lagoon system is given in Figure 1. The lagoons were designed to treat the sewage from a population of 4000 people and had considerable flexibility for the order of operation. During this study the lagoons were operated as follows:

1. the raw sewage was pumped to a splitter box and discharged into Cell 1 which had an area of 3.16 hectares (7.8 acres);
2. the discharge from Cell 1 flowed by gravity to Cell 2 which had an area of 1.30 hectares (3.2 acres);
3. the discharge from Cell 2 flowed by gravity to Cell 3 which had an area of 3.16 hectares (7.8 acres); and
4. the final effluent flowed by gravity to the Wakarusa River.

The lagoons were normal earth dike lagoons having 3:1 side slopes. The operating liquid depth was maintained at 1.5 meters (5 feet) by a 45° V notch weir at the discharge point from Cell 3. There was approximately 1 meter (3 feet) of freeboard from the water level to the top of the dikes around the lagoons. The side slopes above the water were seeded in grass and mowed at regular intervals. No special precautions were taken to protect the dikes at the water level. Normal wind action did cause some erosion but it was not serious during this study. Wind was the normal mechanism used for mixing the contents of the lagoons.

The sewage was pumped to the lagoons from a small pump station. The pump cycle required about 3.3 minutes to empty the wet well. Two 45.4 l/sec (700 gpm) centrifugal pumps were designed to handle peak flow with peak infiltration. Only one pump was used during normal operation and it operated well below design capacity.

The design BOD<sub>5</sub> loading rate was 18.1 kg/ha (36 lbs/acre/day). The overall design loading was 308 kg (680 lbs) BOD<sub>5</sub>/day. While the basic design flow was 17.6 l/s (400,000 gpd), the system was designed to handle peak flow and infiltration rates of 87 l/s (2.0 MGD).

## SECTION V EXPERIMENTAL PROCEDURES

### SAMPLING LOCATIONS AND TECHNIQUES

In order to examine the lagoon contents as well as the raw waste characteristics, four sample points were carefully selected. The raw waste sample was collected at the splitter box. The cell samples were collected at the three effluent structures since they protruded out into each cell.

All samples collected during this study were grab samples taken around 10 AM and were representative of the average conditions. It was planned to use composite samplers but the problem of local vandalism prevented the use of the composite samplers. Careful study of the waste characteristics at Eudora indicated that sampling around 10 AM produced essentially the same characteristics in the raw wastes as could be obtained with composite samples. The cell samples were subject to so many uncontrolled variables that there was little difference between grab samples and composite samples.

TABLE 1. ANALYSES MADE ON LAGOON SAMPLES

| Analysis                  | Raw Waste | Cell 1 | Cell 2 | Cell 3 |
|---------------------------|-----------|--------|--------|--------|
| Flow                      | X         |        |        | XX     |
| pH                        | X         | X      | X      | X      |
| Temperature               | X         | X      | X      | X      |
| Dissolved Oxygen          |           | X      | X      | X      |
| Alkalinity                | X         | X      | X      | X      |
| Total BOD <sub>5</sub>    | X         | X      | X      | X      |
| Soluble BOD <sub>5</sub>  | X         | X      | X      | X      |
| Total COD                 | X         | X      | X      | X      |
| Soluble COD               | X         | X      | X      | X      |
| Suspended Solids          | X         | X      | X      | X      |
| Volatile Suspended Solids | X         | X      | X      | X      |
| Total Phosphorus          | X         | X      | X      | X      |
| Total Kjeldahl Nitrogen   | X         | X      | X      | X      |
| NH <sub>3</sub> -N        | X         | X      | X      | X      |
| NO <sub>2</sub> -N        |           | X      | X      | X      |
| NO <sub>3</sub> -N        |           | X      | X      | X      |
| Total Coliforms           | X         | X      | X      | X      |
| Fecal Coliforms           | X         | X      | X      | X      |
| Algae Counts              |           | X      | X      | X      |

\*Limited data available

Sample analyses were made in accordance with procedures contained in the 11th Edition of Standard Methods for the Examination of Water and Wastewater <sup>2</sup> or as modified according to EPA techniques. <sup>3</sup> The analyses made on each sample are given in Table 1.

In order to obtain representative analyses, samples were collected on a schedule of twice weekly for two months and then daily for 30 consecutive days. The procedure was repeated four times to cover a full year. For comparative purposes the four seasons consisted of one month of twice weekly sampling the 30 day month sampling and one month of twice weekly sampling. The periods were divided as follows:

1. Fall, 1974: September - October - November
2. Winter, 1974: December - January - February
3. Spring, 1975: March - April - May
4. Summer, 1975: June - July - August.

The days of the week used for sampling during the twice weekly sampling periods were varied so that the data would be truly representative of the data to be taken from this lagoon system.

Weather data were collected from the University of Kansas weather station located on the campus in Lawrence, approximately 10 miles west of the lagoons in Eudora. It was felt that the weather data were as representative as could be obtained.

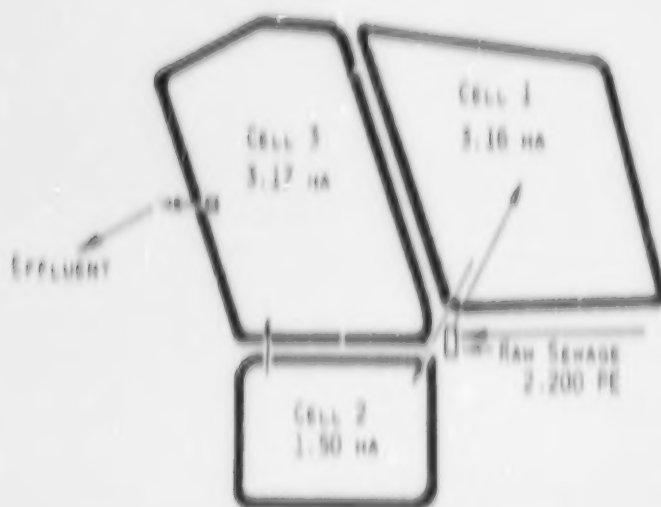


Figure 1. Schematic diagram of oxidation ponds at Eudora, Kansas

## SECTION VI RESULTS

The large numbers of samples and analyses produced some real problems in data handling and evaluation. In order to simplify handling the data, a decision was made to present all of the data in Appendix A and to present only the monthly averages in the body of the report. It was felt that monthly averages gave more meaningful results since variations in wind action produced significant differences in mixing conditions. The monthly averages of the operating data are shown in Table 2.

### FLOW DATA

The raw wastewater flow pattern at Eudora was typical for the midwestern part of the United States. The flow averaged 6.26 l/s (0.143 MGD) in September, 1974, and dropped to 5.13 l/s (0.117 MGD) in January, 1975. The cold weather resulted in the lower flows in December and January since the soil moisture in the upper layer was essentially frozen. The warming weather in February resulted in thawing of the soil moisture and an increase in infiltration with a jump in flow to 7.97 l/s (0.182 MGD). Even though the rainfall increased during the spring months the wastewater flow slowly decreased. The soil was able to retain much of the rainfall with normal runoff accounting for the remainder. Minimum flow was reached in July, 4.51 l/s (0.103 MGD). The average flow for the 12 month period of this study was 5.87 l/s (0.134 MGD).

Converting the daily flow to a per capita basis gave an average flow of 0.0026 l/s (61 gpd) with a maximum daily flow of 0.0040 l/s (93 gpd) and a minimum daily flow of 0.0018 l/s (43 gpd). The flows were typical for a small rural community but the daily variations were lower than normally found in this size system, ranging from a minimum of about 50% to a maximum of 150%. The variations during the day followed normal diurnal patterns. Since all flows were pumped to the ponds, the flow pattern was characterized by a rapid discharge of 61 l/s (980 gpm) for 1.3 minutes and then a wait until the wet well refilled. During peak flow rates the discharges occurred frequently. The ponds tended to level out the flow variations so that the discharge from Cell 3 was essentially constant over short periods.

Unfortunately, it was not possible to measure the discharge from Cell 3 over the entire period. The problem of vandalism at the lagoon site prevented installation of the effluent recorder until near the end of the project. The effluent data are recorded in Table A-2. The data collected during July and August reflected the period of high evaporation. Maximum evaporation occurred the first part of July when 425,000 l/day (112,000 gpd) was lost by evaporation and seepage. It was not possible to separate seepage from evaporation. Needless to say, rainfall produced a significant increase in the discharge and was the major cause in any abrupt increase in effluent flow.

TABLE 1. MONTHLY AVERAGE DATA

| Month         | No. of<br>Sampling<br>Days | Sampling<br>Locations                  | Flow (C<br>Design)<br>1/s | pH                       | Alkalinity<br>mg/l as CaCO <sub>3</sub> | Temperature<br>°C    | Dissolved<br>Oxygen<br>mg/l |
|---------------|----------------------------|----------------------------------------|---------------------------|--------------------------|-----------------------------------------|----------------------|-----------------------------|
| Sept.<br>1974 | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 6.2<br>(36)               | 7.3<br>8.2<br>8.6<br>9.0 | 400<br>380<br>250<br>360                | 12<br>12<br>12<br>12 | -<br>8.2<br>16<br>16        |
| Oct.<br>1974  | 30                         | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 6.9<br>(35)               | 7.7<br>8.0<br>8.3<br>8.8 | 420<br>310<br>290<br>250                | 10<br>12<br>12<br>16 | -<br>1.8<br>2.9<br>9.2      |
| Nov.<br>1974  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 5.9<br>(34)               | 7.6<br>7.8<br>7.9<br>8.4 | 420<br>320<br>360<br>260                | 12<br>12<br>12<br>12 | -<br>5.5<br>7.5<br>9.9      |
| Dec.<br>1974  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 5.2<br>(30)               | 7.6<br>7.8<br>8.1<br>8.4 | 410<br>340<br>300<br>250                | 14<br>12<br>12<br>12 | -<br>7.8<br>16<br>16        |
| Jan.<br>1975  | 30                         | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 5.1<br>(28)               | 7.9<br>7.8<br>8.2<br>8.7 | 420<br>360<br>330<br>280                | 12<br>12<br>12<br>12 | -<br>4.2<br>16<br>16        |
| Feb.<br>1975  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 7.9<br>(46)               | 7.9<br>7.8<br>8.4<br>8.8 | 400<br>360<br>330<br>280                | 12<br>12<br>12<br>12 | -<br>5.2<br>16<br>16        |



TABLE 2. MONTHLY AVERAGE DATA (CONTINUED)

| Month        | No. of<br>Sampling<br>Days | Flow (2<br>Design)<br>1/s | pH  | Alkalinity<br>mg/l as CaCO <sub>3</sub> | Temperature<br>°C | Dissolved<br>Solids<br>mg/l |
|--------------|----------------------------|---------------------------|-----|-----------------------------------------|-------------------|-----------------------------|
| Mar.<br>1975 | 8                          | 7.5<br>(43)               | 7.9 | 430                                     | 12                | 15                          |
|              |                            |                           | 8.5 | 340                                     | 7.2               | 15                          |
|              |                            |                           | 8.7 | 320                                     | 7.8               | 15                          |
|              |                            |                           | 8.9 | 280                                     | 7.8               | 15                          |
| Apr.<br>1975 | 30                         | 6.5<br>(37)               | 8.0 | 420                                     | 14                | 13                          |
|              |                            |                           | 8.1 | 350                                     | 14                | 13                          |
|              |                            |                           | 8.4 | 320                                     | 14                | 13                          |
|              |                            |                           | 9.1 | 250                                     | 13                | 13                          |
| May<br>1975  | 8                          | 5.2<br>(27)               | 7.7 | 400                                     | 13                | 13                          |
|              |                            |                           | 7.9 | 360                                     | 13                | 13                          |
|              |                            |                           | 8.3 | 300                                     | 13                | 13                          |
|              |                            |                           | 9.0 | 230                                     | 11                | 13                          |
| June<br>1975 | 8                          | 5.1<br>(26)               | 7.7 | 430                                     | 15                | 13                          |
|              |                            |                           | 8.5 | 390                                     | 15                | 13                          |
|              |                            |                           | 8.8 | 340                                     | 15                | 13                          |
|              |                            |                           | 8.9 | 220                                     | 15                | 13                          |
| July<br>1975 | 30                         | 4.2<br>(22)               | 7.7 | 490                                     | 13                | 13                          |
|              |                            |                           | 8.3 | 350                                     | 13                | 13                          |
|              |                            |                           | 8.8 | 210                                     | 13                | 13                          |
|              |                            |                           | 9.0 | 200                                     | 13                | 13                          |
| Aug.<br>1975 | 8                          | 4.2<br>(22)               | 7.7 | 510                                     | 15                | 13                          |
|              |                            |                           | 8.3 | 320                                     | 15                | 13                          |
|              |                            |                           | 8.7 | 250                                     | 15                | 13                          |
|              |                            |                           | 9.3 | 210                                     | 15                | 13                          |



TABLE 2. MONTHLY AVERAGE DDT, DDT-D, AND DDT-D<sub>2</sub>

| Month      | No. of Sampling Days | Sampling Location | Total DDT, mg/l | Soluble DDT, mg/l | Total DDT, mg/l | Soluble DDT, mg/l | Total DDT, mg/l | Soluble DDT, mg/l |
|------------|----------------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|
| Sept. 1974 | 8                    | Influent          | 330             | 130               | 640             | 280               | 21              | 21                |
|            |                      | Cell 1            | 41              | 11                | 180             | 83                | 18              | 18                |
|            |                      | Cell 2            | 31              | 5.8               | 380             | 71                | 6.8             | 6.8               |
|            |                      | Cell 3            | 18              | 2.5               | 130             | 62                | 1.7             | 1.7               |
| Oct. 1974  | 30                   | Influent          | 280             | 120               | 530             | 220               | 38              | 38                |
|            |                      | Cell 1            | 49              | 13                | 210             | 83                | 8.1             | 8.1               |
|            |                      | Cell 2            | 30              | 7.8               | 180             | 70                | 6.2             | 6.2               |
|            |                      | Cell 3            | 18              | 4.2               | 140             | 55                | 1.3             | 1.3               |
| Nov. 1974  | 8                    | Influent          | 300             | 180               | 580             | 260               | 17              | 17                |
|            |                      | Cell 1            | 41              | 11                | 180             | 83                | 7.2             | 7.2               |
|            |                      | Cell 2            | 30              | 5.8               | 140             | 58                | 5.5             | 5.5               |
|            |                      | Cell 3            | 18              | 1.8               | 120             | 41                | 4.8             | 4.8               |
| Dec. 1974  | 8                    | Influent          | 420             | 180               | 610             | 280               | 18              | 18                |
|            |                      | Cell 1            | 51              | 22                | 140             | 71                | 8.8             | 8.8               |
|            |                      | Cell 2            | 30              | 11                | 130             | 51                | 7.2             | 7.2               |
|            |                      | Cell 3            | 15              | 1.8               | 110             | 58                | 4.4             | 4.4               |
| Jan. 1975  | 30                   | Influent          | 330             | 160               | 570             | 220               | 17              | 17                |
|            |                      | Cell 1            | 58              | 18                | 170             | 74                | 11              | 11                |
|            |                      | Cell 2            | 50              | 11                | 130             | 58                | 8.2             | 8.2               |
|            |                      | Cell 3            | 24              | 7.0               | 100             | 51                | 5.6             | 5.6               |
| Feb. 1975  | 8                    | Influent          | 300             | 120               | 630             | 230               | 28              | 28                |
|            |                      | Cell 1            | 25              | 9.6               | 180             | 71                | 11              | 11                |
|            |                      | Cell 2            | 20              | 3.9               | 140             | 68                | 8.8             | 8.8               |
|            |                      | Cell 3            | 18              | 2.5               | 120             | 58                | 7.6             | 7.6               |

TABLE 1. MONTHLY AVERAGE DATA (CONTINUED)

| Month     | No. of Sampling Days | Sampling Location | Total BOD <sub>5</sub> mg/l | Soluble BOD <sub>5</sub> mg/l | Total COD mg/l | Soluble COD mg/l | Total Phosphorus mg/l |
|-----------|----------------------|-------------------|-----------------------------|-------------------------------|----------------|------------------|-----------------------|
| Mar. 1975 | 8                    | Influent          | 360                         | 170                           | 640            | 790              | 17                    |
|           |                      | Cell 1            | 44                          | 34                            | 190            | 60               | 8.3                   |
|           |                      | Cell 2            | 36                          | 4.2                           | 150            | 48               | 7.8                   |
|           |                      | Cell 3            | 34                          | 3.2                           | 130            | 42               | 4.8                   |
| Apr. 1975 | 30                   | Influent          | 280                         | 130                           | 580            | 170              | 34                    |
|           |                      | Cell 1            | 744                         | 15                            | 2620           | 70               | 8.8                   |
|           |                      | Cell 2            | 269                         | 8.6                           | 120            | 99               | 5.2                   |
|           |                      | Cell 3            | 30                          | 5.0                           | 120            | 62               | 2.6                   |
| May 1975  | 8                    | Influent          | 210                         | 95                            | 380            | 120              | 34                    |
|           |                      | Cell 1            | 57                          | 13                            | 280            | 76               | 12                    |
|           |                      | Cell 2            | 60                          | 11                            | 190            | 62               | 6.7                   |
|           |                      | Cell 3            | 27                          | 6.7                           | 140            | 42               | 3.8                   |
| June 1975 | 8                    | Influent          | 180                         | 78                            | 460            | 130              | 28                    |
|           |                      | Cell 1            | 42                          | 11                            | 200            | 52               | 8.3                   |
|           |                      | Cell 2            | 44                          | 7.2                           | 180            | 58               | 5.8                   |
|           |                      | Cell 3            | 24                          | 2.3                           | 130            | 35               | 3.2                   |
| July 1975 | 30                   | Influent          | 270                         | 140                           | 530            | 200              | 28                    |
|           |                      | Cell 1            | 55                          | 19                            | 270            | 83               | 8.8                   |
|           |                      | Cell 2            | 40                          | 30                            | 230            | 72               | 5.6                   |
|           |                      | Cell 3            | 25                          | 4.5                           | 170            | 59               | 2.4                   |
| Aug. 1975 | 8                    | Influent          | 300                         | 186                           | 540            | 270              | 28                    |
|           |                      | Cell 1            | 68                          | 15                            | 240            | 90               | 10                    |
|           |                      | Cell 2            | 47                          | 9.6                           | 200            | 74               | 5.8                   |
|           |                      | Cell 3            | 31                          | 6.1                           | 190            | 68               | 2.5                   |

TABLE 1. MONTHLY AVERAGE DATA (CONTINUED)

| Month      | No. of Sampling Days | Sampling Location | Suspended Solids mg/l | Volcanic Solids mg/l | Kyolohel Pyrogen mg/l | Ammelia Pyrogen mg/l | Barbita Pyrogen mg/l |
|------------|----------------------|-------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|
| Sept. 1974 | 8                    | Influent          | 290                   | 240                  | 46                    | 27                   | -                    |
|            |                      | Cell 1            | 89                    | 76                   | 34                    | 6.1                  | 0.8                  |
|            |                      | Cell 2            | 72                    | 66                   | 9.8                   | 2.1                  | 0.1                  |
|            |                      | Cell 3            | 62                    | 58                   | 9.0                   | 0.4                  | 0.8                  |
| Oct. 1974  | 30                   | Influent          | 230                   | 190                  | 44                    | 27                   | -                    |
|            |                      | Cell 1            | 120                   | 95                   | 17                    | 7.5                  | 0.2                  |
|            |                      | Cell 2            | 84                    | 68                   | 11                    | 4.8                  | 0.2                  |
|            |                      | Cell 3            | 70                    | 64                   | 9.3                   | 0.3                  | 0.1                  |
| Nov. 1974  | 6                    | Influent          | 260                   | 210                  | 51                    | 27                   | -                    |
|            |                      | Cell 1            | 79                    | 68                   | 14                    | 13                   | 0.3                  |
|            |                      | Cell 2            | 78                    | 63                   | 11                    | 1.8                  | 0.2                  |
|            |                      | Cell 3            | 61                    | 54                   | 8.7                   | 0.1                  | 0.1                  |
| Dec. 1974  | 8                    | Influent          | 260                   | 210                  | 47                    | 29                   | -                    |
|            |                      | Cell 1            | 71                    | 65                   | 20                    | 15                   | 0.1                  |
|            |                      | Cell 2            | 54                    | 48                   | 12                    | 5.9                  | 0.1                  |
|            |                      | Cell 3            | 39                    | 35                   | 6.8                   | 1.8                  | 0.8                  |
| Jan. 1975  | 30                   | Influent          | 250                   | 200                  | 50                    | 30                   | -                    |
|            |                      | Cell 1            | 84                    | 78                   | 23                    | 16                   | 0.8                  |
|            |                      | Cell 2            | 59                    | 54                   | 16                    | 12                   | 0.8                  |
|            |                      | Cell 3            | 47                    | 42                   | 8.2                   | 1.5                  | 0.8                  |
| Feb. 1975  | 6                    | Influent          | 400                   | 220                  | 54                    | 37                   | -                    |
|            |                      | Cell 1            | 74                    | 72                   | 25                    | 16                   | 0.8                  |
|            |                      | Cell 2            | 60                    | 50                   | 17                    | 17                   | 0.8                  |
|            |                      | Cell 3            | 61                    | 51                   | 9.9                   | 1.5                  | 0.8                  |

TABLE 1. MONTHLY AVERAGE DATA (CONTINUED)

| Month     | No. of Sampling Days | Sampling Location | Suspended Solids mg/l | Refuse Suspended Solids mg/l | Nitrate Nitrogen mg/l | Ammonia Nitrogen mg/l | Nitrite Nitrogen mg/l |
|-----------|----------------------|-------------------|-----------------------|------------------------------|-----------------------|-----------------------|-----------------------|
| Mar. 1975 | 8                    | Influent          | 280                   | 230                          | -                     | 20                    | -                     |
|           |                      | Cell 1            | 110                   | 97                           | 21                    | 7.7                   | 0.0                   |
|           |                      | Cell 2            | 95                    | 81                           | 15                    | 5.8                   | 0.0                   |
|           |                      | Cell 3            | 76                    | 62                           | 9.1                   | 2.5                   | 0.0                   |
| Apr. 1975 | 30                   | Influent          | 230                   | 250                          | 68                    | 28                    | -                     |
|           |                      | Cell 1            | 86                    | 72                           | 30                    | 10                    | 0.0                   |
|           |                      | Cell 2            | 52                    | 42                           | 18                    | 6.6                   | 0.1                   |
|           |                      | Cell 3            | 35                    | 41                           | 12                    | 1.7                   | 0.1                   |
| May 1975  | 8                    | Influent          | 190                   | 160                          | 43                    | 17                    | -                     |
|           |                      | Cell 1            | 130                   | 100                          | 28                    | 8.8                   | 0.0                   |
|           |                      | Cell 2            | 96                    | 89                           | 16                    | 3.9                   | 0.3                   |
|           |                      | Cell 3            | 78                    | 72                           | 7.3                   | 0.9                   | 0.1                   |
| June 1975 | 8                    | Influent          | 310                   | 210                          | 35                    | 15                    | -                     |
|           |                      | Cell 1            | 120                   | 210                          | 12                    | 3.2                   | 0.0                   |
|           |                      | Cell 2            | 120                   | 110                          | 9.0                   | 0.6                   | 0.1                   |
|           |                      | Cell 3            | 83                    | 77                           | 7.2                   | 0.2                   | 0.1                   |
| July 1975 | 30                   | Influent          | 300                   | 230                          | 62                    | 26                    | -                     |
|           |                      | Cell 1            | 170                   | 150                          | 22                    | 3.3                   | 0.0                   |
|           |                      | Cell 2            | 150                   | 130                          | 15                    | 0.7                   | 0.0                   |
|           |                      | Cell 3            | 77                    | 66                           | 11                    | 0.2                   | 0.0                   |
| Aug. 1975 | 8                    | Influent          | 310                   | 250                          | 60                    | 28                    | -                     |
|           |                      | Cell 1            | 140                   | 120                          | 24                    | 5.3                   | 0.0                   |
|           |                      | Cell 2            | 130                   | 110                          | 17                    | 1.6                   | 0.0                   |
|           |                      | Cell 3            | 95                    | 87                           | 9.6                   | 0.2                   | 0.0                   |

TABLE 2. MONTHLY AVERAGE DATA (CONTINUED)

| Month         | No. of<br>Sampling<br>Days | Sampling<br>Locations                  | Nitrate<br>Nitrogen<br>mg/l | Total<br>Cellulose<br>No./7100 ml                                                        | Fecal<br>Coliforme<br>No./7100 ml                                                           | Chlamydomonas<br>No./ ml        | Endamoeba<br>No./ ml          |
|---------------|----------------------------|----------------------------------------|-----------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------|-------------------------------|
| Sept.<br>1974 | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>0.0<br>0.1<br>0.0      | 1.7e10 <sup>5</sup><br>2.4e10 <sup>5</sup><br>1.5e10 <sup>6</sup><br>6.8e10 <sup>2</sup> | 3.3e10 <sup>5</sup><br>0.79e10 <sup>5</sup><br>0.33e10 <sup>6</sup><br>0.79e10 <sup>2</sup> | -<br>8,000<br>2,400<br>3,200    | -<br>2,600<br>800<br>0        |
| Oct.<br>1974  | 30                         | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>4.5<br>3.0<br>0.4      | 4.3e10 <sup>5</sup><br>2.4e10 <sup>5</sup><br>4.5e10 <sup>4</sup><br>2e10 <sup>2</sup>   | 2.3e10 <sup>5</sup><br>0.47e10 <sup>5</sup><br>0.93e10 <sup>4</sup><br>2.3e10 <sup>2</sup>  | -<br>8,000<br>6,000<br>4,000    | -<br>8,000<br>2,600<br>400    |
| Nov.<br>1974  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>9.2<br>4.5<br>1.2      | 4.3e10 <sup>5</sup><br>2.4e10 <sup>5</sup><br>0.54e10 <sup>4</sup><br>5e10 <sup>2</sup>  | 1.0e10 <sup>5</sup><br>0.29e10 <sup>5</sup><br>0.61e10 <sup>4</sup><br>3.2e10 <sup>2</sup>  | -<br>14,000<br>15,000<br>12,000 | -<br>0<br>1,000<br>1,600      |
| Dec.<br>1974  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>0.8<br>1.3<br>0.9      | 1.0e10 <sup>5</sup><br>1.3e10 <sup>5</sup><br>3.0e10 <sup>4</sup><br>9.4e10 <sup>2</sup> | 2.0e10 <sup>5</sup><br>0.19e10 <sup>5</sup><br>0.33e10 <sup>4</sup><br>0.79e10 <sup>2</sup> | -<br>13,000<br>15,000<br>29,000 | -<br>0<br>4,000<br>8,000      |
| Jan.<br>1975  | 30                         | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>0.7<br>0.7<br>0.9      | 4.3e10 <sup>5</sup><br>2.4e10 <sup>5</sup><br>2.4e10 <sup>4</sup><br>4e10 <sup>2</sup>   | 2.0e10 <sup>5</sup><br>0.47e10 <sup>5</sup><br>0.93e10 <sup>4</sup><br>9.3e10 <sup>2</sup>  | -<br>9,400<br>15,000<br>28,000  | -<br>1,600<br>6,000<br>10,000 |
| Feb.<br>1975  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>0.7<br>0.5<br>0.6      | 4.3e10 <sup>5</sup><br>4.6e10 <sup>5</sup><br>2.5e10 <sup>4</sup><br>4e10 <sup>2</sup>   | 1.3e10 <sup>5</sup><br>0.39e10 <sup>5</sup><br>0.33e10 <sup>4</sup><br>4.3e10 <sup>2</sup>  | -<br>5,600<br>8,400<br>13,000   | -<br>800<br>1,000<br>8,400    |



TABLE 2. MONTHLY AVERAGE DATA (CONTINUED)

| Month     | No. of Sampling Days | Sampling Location | Nitrate Nitrogen mg/l | Total Cellulose No./100 ml | Free Cellulose No./100 ml | Chlorophyllous No./ ml | Flagellates No./ml |
|-----------|----------------------|-------------------|-----------------------|----------------------------|---------------------------|------------------------|--------------------|
| Mar. 1975 | 8                    | Influent          | -                     | 7.9e10 <sup>5</sup>        | 1.3e10 <sup>5</sup>       | -                      | -                  |
|           |                      | Cell 1            | 0.6                   | 2.8e10 <sup>5</sup>        | 0.13e10 <sup>5</sup>      | 5,000                  | 2,000              |
|           |                      | Cell 2            | 0.6                   | 1.9e10 <sup>5</sup>        | 0.07e10 <sup>5</sup>      | 12,000                 | 5,000              |
|           |                      | Cell 3            | 0.7                   | 6.4e10 <sup>5</sup>        | 0.62e10 <sup>5</sup>      | 16,000                 | 22,000             |
| Apr. 1975 | 30                   | Influent          | -                     | 9.3e10 <sup>5</sup>        | 2.3e10 <sup>5</sup>       | -                      | -                  |
|           |                      | Cell 1            | 1.1                   | 2.4e10 <sup>5</sup>        | 0.13e10 <sup>5</sup>      | 6,000                  | 12,000             |
|           |                      | Cell 2            | 0.8                   | 0.43e10 <sup>6</sup>       | 0.08e10 <sup>6</sup>      | 9,000                  | 7,000              |
|           |                      | Cell 3            | 0.7                   | 9.3e10 <sup>5</sup>        | 0.40e10 <sup>5</sup>      | 12,000                 | 9,000              |
| May 1975  | 8                    | Influent          | -                     | 9.4e10 <sup>5</sup>        | 2.8e10 <sup>5</sup>       | -                      | -                  |
|           |                      | Cell 1            | 1.5                   | 2.9e10 <sup>5</sup>        | 0.40e10 <sup>5</sup>      | 20,000                 | 12,000             |
|           |                      | Cell 2            | 2.0                   | 5.3e10 <sup>5</sup>        | 1.3e10 <sup>5</sup>       | 28,000                 | 8,000              |
|           |                      | Cell 3            | 0.9                   | 7.8e10 <sup>5</sup>        | 1.3e10 <sup>5</sup>       | 12,000                 | 5,000              |
| June 1975 | 8                    | Influent          | -                     | 1.3e10 <sup>6</sup>        | 3.3e10 <sup>5</sup>       | -                      | -                  |
|           |                      | Cell 1            | 0.9                   | 0.36e10 <sup>6</sup>       | 0.11e10 <sup>5</sup>      | 26,000                 | 14,000             |
|           |                      | Cell 2            | 0.8                   | 0.79e10 <sup>6</sup>       | 0.17e10 <sup>6</sup>      | 30,000                 | 8,000              |
|           |                      | Cell 3            | 0.4                   | 4.1e10 <sup>5</sup>        | 0.45e10 <sup>5</sup>      | 12,000                 | 5,000              |
| July 1975 | 30                   | Influent          | -                     | 2.0e10 <sup>6</sup>        | 4.3e10 <sup>5</sup>       | -                      | -                  |
|           |                      | Cell 1            | 1.5                   | 0.93e10 <sup>5</sup>       | 0.15e10 <sup>5</sup>      | 9,000                  | 10,000             |
|           |                      | Cell 2            | 0.9                   | 0.43e10 <sup>6</sup>       | 0.08e10 <sup>6</sup>      | 12,000                 | 6,000              |
|           |                      | Cell 3            | 0.6                   | 1.5e10 <sup>5</sup>        | <0.10e10 <sup>5</sup>     | 7,000                  | 5,000              |
| Aug. 1975 | 8                    | Influent          | -                     | 2.0e10 <sup>6</sup>        | 3.4e10 <sup>5</sup>       | -                      | -                  |
|           |                      | Cell 1            | 1.4                   | 2.3e10 <sup>5</sup>        | 0.30e10 <sup>5</sup>      | 7,000                  | 10,000             |
|           |                      | Cell 2            | 1.3                   | 1.5e10 <sup>6</sup>        | 0.07e10 <sup>6</sup>      | 12,000                 | 6,000              |
|           |                      | Cell 3            | 0.7                   | 3.3e10 <sup>5</sup>        | 0.70e10 <sup>5</sup>      | 8,000                  | 5,000              |

TABLE 1. MONTHLY AVERAGE DATA (CONTINUED)

| Month         | No. of<br>Sampling<br>Days | Sampling<br>Location | Chlorophyll<br>No./gal | Active<br>status<br>No./gal | Amphipods<br>No./gal | Benthos             |                    |
|---------------|----------------------------|----------------------|------------------------|-----------------------------|----------------------|---------------------|--------------------|
|               |                            |                      |                        |                             |                      | Infaunal<br>No./gal | Polych.<br>No./gal |
| Sept.<br>1974 | 8                          | Influent             | -                      | -                           | -                    | -                   | -                  |
|               |                            | Cell 1               | 52,000                 | 14,000                      | 2,000                | 0                   | 18,000             |
|               |                            | Cell 2               | 16,000                 | 4,400                       | 870                  | 0                   | 20,000             |
| Sept.         | 8                          | Cell 3               | 13,600                 | 810                         | 200                  | 0                   | 36,000             |
|               |                            | Influent             | -                      | -                           | -                    | -                   | -                  |
|               |                            | Cell 1               | 53,000                 | 14,000                      | 7,000                | 0                   | 26,000             |
| Oct.<br>1974  | 30                         | Cell 2               | 27,000                 | 3,300                       | 5,000                | 0                   | 23,000             |
|               |                            | Cell 3               | 10,000                 | 800                         | 1,000                | 0                   | 63,000             |
| Nov.<br>1974  | 8                          | Influent             | -                      | -                           | -                    | -                   | -                  |
|               |                            | Cell 1               | 73,000                 | 11,000                      | 11,600               | 0                   | 10,000             |
|               |                            | Cell 2               | 50,000                 | 5,600                       | 9,600                | 0                   | 23,000             |
| Dec.<br>1974  | 8                          | Cell 3               | 28,000                 | 1,400                       | 5,000                | 0                   | 76,000             |
|               |                            | Influent             | -                      | -                           | -                    | -                   | -                  |
|               |                            | Cell 1               | 69,000                 | 3,000                       | 19,800               | 0                   | 5,900              |
| Jan.<br>1975  | 30                         | Cell 2               | 41,000                 | 1,600                       | 8,400                | 0                   | 8,000              |
|               |                            | Cell 3               | 600                    | 600                         | 4,000                | 0                   | 17,000             |
| Jan.          | 30                         | Influent             | -                      | -                           | -                    | -                   | -                  |
|               |                            | Cell 1               | 136,000                | 0                           | 0                    | 0                   | 0                  |
|               |                            | Cell 2               | 20,000                 | 0                           | 0                    | 0                   | 0                  |
| Feb.<br>1975  | 8                          | Cell 3               | 11,000                 | 0                           | 0                    | 0                   | 0                  |
|               |                            | Influent             | -                      | -                           | -                    | -                   | -                  |
|               |                            | Cell 1               | 340,000                | 0                           | 0                    | 0                   | 0                  |
| Feb.          | 8                          | Cell 2               | 239,000                | 0                           | 0                    | 0                   | 0                  |
|               |                            | Cell 3               | 58,000                 | 0                           | 0                    | 0                   | 0                  |

TABLE 1. MONITOR STATION DATA (CONTINUED)

| Month | No. of<br>Sampling<br>Days | Sampling<br>Location | Chlorella<br>No./ml | Active<br>across<br>No./ml | Anabaena<br>desmaz<br>No./ml | Microcystis<br>aerugin<br>No./ml | Oscillatoria<br>No./ml |
|-------|----------------------------|----------------------|---------------------|----------------------------|------------------------------|----------------------------------|------------------------|
| Mar.  | 8                          | Isotermant           |                     |                            |                              |                                  |                        |
| 1975  |                            | Cell 1               | 1,800,000           | 0                          | 0                            | 0                                | 200                    |
|       |                            | Cell 2               | 1,200,000           | 0                          | 0                            | 0                                | 3,100                  |
|       |                            | Cell 3               | 220,000             | 0                          | 0                            | 0                                | 4,200                  |
| Apr.  | 10                         | Isotermant           |                     |                            |                              |                                  |                        |
| 1975  |                            | Cell 1               | 1,000,000           | 0                          | 0                            | 1,000                            | 2,800                  |
|       |                            | Cell 2               | 96,000              | 0                          | 0                            | 600                              | 2,800                  |
|       |                            | Cell 3               | 58,000              | 0                          | 0                            | 800                              | 3,800                  |
| May   | 8                          | Isotermant           |                     |                            |                              |                                  |                        |
| 1975  |                            | Cell 1               | 1,400,000           | 7,000                      | 400                          | 400                              | 12,000                 |
|       |                            | Cell 2               | 800,000             | 3,800                      | 2,600                        | 200                              | 34,000                 |
|       |                            | Cell 3               | 81,000              | 1,600                      | 300                          | 0                                | 42,000                 |
| June  | 8                          | Isotermant           |                     |                            |                              |                                  |                        |
| 1975  |                            | Cell 1               | 1,100,000           | 6,000                      | 4,400                        | 0                                | 24,000                 |
|       |                            | Cell 2               | 78,000              | 4,000                      | 4,800                        | 0                                | 40,000                 |
|       |                            | Cell 3               | 140,000             | 2,200                      | 2,400                        | 0                                | 68,000                 |
| July  | 10                         | Isotermant           |                     |                            |                              |                                  |                        |
| 1975  |                            | Cell 1               | 79,000              | 4,600                      | 3,600                        | 0                                | 61,000                 |
|       |                            | Cell 2               | 46,000              | 4,000                      | 3,800                        | 0                                | 64,000                 |
|       |                            | Cell 3               | 28,000              | 3,200                      | 2,800                        | 0                                | 44,000                 |
| Aug.  | 8                          | Isotermant           |                     |                            |                              |                                  |                        |
| 1975  |                            | Cell 1               | 45,000              | 3,200                      | 2,300                        | 0                                | 38,000                 |
|       |                            | Cell 2               | 53,000              | 3,600                      | 5,000                        | 0                                | 65,000                 |
|       |                            | Cell 3               | 44,000              | 3,000                      | 800                          | 0                                | 43,000                 |

TABLE 1. MONTHLY AVERAGE DGD (CONTINUED)

| Month         | No. of<br>Sampling<br>Days | Sampling<br>Location                   | Pharos<br>No./ft.       | Curatella<br>No./ft.    | Chiron-<br>omid<br>No./ft. | Procto-<br>ptera<br>No./ft. | Scen-<br>esamus<br>No./ft.  |
|---------------|----------------------------|----------------------------------------|-------------------------|-------------------------|----------------------------|-----------------------------|-----------------------------|
| Sept-<br>1974 | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 400<br>0<br>400         | 0<br>0<br>0             | 600<br>400<br>200          | 400<br>200<br>0             | 4,400<br>3,500<br>2,800     |
| Oct-<br>1974  | 30                         | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 5,600<br>4,000<br>1,600 | 2,800<br>6,400<br>1,600 | 3,000<br>2,600<br>800      | 1,200<br>400<br>0           | 16,000<br>8,400<br>2,800    |
| Nov-<br>1974  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 200<br>1,600<br>800     | 2,800<br>2,800<br>400   | 400<br>1,200<br>400        | 0<br>0<br>0                 | 48,000<br>30,000<br>9,200   |
| Dec-<br>1974  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 1,400<br>4,400<br>3,800 | 1,400<br>1,600<br>2,800 | 400<br>0<br>0              | 0<br>0<br>0                 | 110,000<br>60,000<br>21,000 |
| Jan-<br>1975  | 30                         | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 6,600<br>6,800<br>7,840 | 0<br>5,200<br>9,200     | 0<br>0<br>0                | 0<br>0<br>0                 | 240,000<br>89,000<br>30,000 |
| Feb-<br>1975  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 4,000<br>7,600<br>8,000 | 0<br>0<br>6,000         | 0<br>0<br>0                | 0<br>0<br>0                 | 150,000<br>88,000<br>42,000 |

TABLE 2. MONTHLY AVERAGE DATA (CONTINUED)

| Month        | No. of<br>Sampling<br>Days | Sampling<br>Locations                  | Phoxinus<br>No./ft.      | Caracalla<br>No./ft.      | Chloro-<br>gaster<br>No./ft. | Pseud-<br>rius<br>No./ft. | Scor-<br>pius<br>No./ft.    |
|--------------|----------------------------|----------------------------------------|--------------------------|---------------------------|------------------------------|---------------------------|-----------------------------|
| Mar.<br>1975 | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 5,800<br>8,200<br>13,000 | 0<br>0<br>0               | 0<br>0<br>0                  | 0<br>0<br>0               | 170,000<br>55,000<br>42,000 |
| Apr.<br>1975 | 30                         | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 2,000<br>0<br>0          | 600<br>1,800<br>2,200     | 0<br>0<br>0                  | 0<br>0<br>0               | 19,000<br>9,800<br>10,000   |
| May<br>1975  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 0<br>0<br>0              | 4,600<br>8,000<br>3,200   | 600<br>2,600<br>400          | 200<br>0<br>0             | 44,000<br>34,000<br>73,000  |
| June<br>1975 | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 0<br>0<br>0              | 11,600<br>15,000<br>7,200 | 2,400<br>1,600<br>1,200      | 0<br>0<br>0               | 46,000<br>40,000<br>14,000  |
| July<br>1975 | 30                         | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 0<br>0<br>0              | 1,400<br>3,200<br>1,600   | 4,000<br>7,600<br>3,200      | 0<br>0<br>0               | 68,000<br>31,000<br>6,400   |
| Aug.<br>1975 | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | 0<br>0<br>0              | 400<br>1,000<br>400       | 1,400<br>4,000<br>4,600      | 0<br>0<br>0               | 18,000<br>10,900<br>6,800   |

TABLE 2. MONTHLY AVERAGE DATA (CONTINUED)

| Month          | No. of<br>Sampling<br>Days | Sampling<br>Location | <i>Amurestia</i><br>No./ftl | <i>Agabus</i><br><i>ellipticus</i><br>No./ftl | <i>Cryptor-</i><br><i>pus</i><br>No./ftl | <i>Melano-</i><br><i>mus</i><br>No./ftl | <i>Nitro-</i><br><i>schila</i><br>No./ftl |
|----------------|----------------------------|----------------------|-----------------------------|-----------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|
| Sept.-<br>1974 | 8                          | Influent             | -                           | -                                             | -                                        | -                                       | -                                         |
|                |                            | Cell 1               | 400                         | 800                                           | 0                                        | 0                                       | 2,000                                     |
|                |                            | Cell 2               | 400                         | 800                                           | 0                                        | 0                                       | 1,500                                     |
|                |                            | Cell 3               | 0                           | 0                                             | 0                                        | 0                                       | 600                                       |
| Oct.-<br>1974  | 30                         | Influent             | -                           | -                                             | -                                        | -                                       | -                                         |
|                |                            | Cell 1               | 0                           | 8,000                                         | 200                                      | 400                                     | 4,000                                     |
|                |                            | Cell 2               | 0                           | 1,000                                         | 3,000                                    | 2,000                                   | 3,800                                     |
|                |                            | Cell 3               | 0                           | 0                                             | 1,000                                    | 1,000                                   | 3,000                                     |
| Nov.-<br>1974  | 8                          | Influent             | -                           | -                                             | -                                        | -                                       | -                                         |
|                |                            | Cell 1               | 0                           | 6,000                                         | 2,400                                    | 1,800                                   | 12,000                                    |
|                |                            | Cell 2               | 0                           | 2,800                                         | 1,200                                    | 2,200                                   | 13,000                                    |
|                |                            | Cell 3               | 800                         | 900                                           | 1,000                                    | 400                                     | 8,000                                     |
| Dec.-<br>1974  | 8                          | Influent             | -                           | -                                             | -                                        | -                                       | -                                         |
|                |                            | Cell 1               | 0                           | 1,000                                         | 10,000                                   | 0                                       | 7,000                                     |
|                |                            | Cell 2               | 0                           | 0                                             | 10,000                                   | 400                                     | 7,000                                     |
|                |                            | Cell 3               | 0                           | 0                                             | 10,000                                   | 200                                     | 6,400                                     |
| Jan.-<br>1975  | 30                         | Influent             | -                           | -                                             | -                                        | -                                       | -                                         |
|                |                            | Cell 1               | 0                           | 0                                             | 3,200                                    | 600                                     | 0                                         |
|                |                            | Cell 2               | 0                           | 0                                             | 12,000                                   | 400                                     | 0                                         |
|                |                            | Cell 3               | 0                           | 0                                             | 15,000                                   | 0                                       | 0                                         |
| Feb.-<br>1975  | 8                          | Influent             | -                           | -                                             | -                                        | -                                       | -                                         |
|                |                            | Cell 1               | 0                           | 0                                             | 6,800                                    | 0                                       | 800                                       |
|                |                            | Cell 2               | 0                           | 0                                             | 7,800                                    | 0                                       | 0                                         |
|                |                            | Cell 3               | 0                           | 0                                             | 13,000                                   | 0                                       | 0                                         |



TABLE 2. MONTHLY AVERAGE DATA (CONTINUED)

| Month        | No. of<br>Sampling<br>Days | Sampling<br>Location | Anacardium<br>No./ft. | Agave-<br>ciliatum<br>No./ft. | Cryptos-<br>monas<br>No./ft. | Mallo-<br>monas<br>No./ft. | Mitro-<br>schia<br>No./ft. |
|--------------|----------------------------|----------------------|-----------------------|-------------------------------|------------------------------|----------------------------|----------------------------|
| Mar.<br>1975 | 8                          | Infusant             | -                     | -                             | -                            | -                          | -                          |
|              |                            | Cell 1               | 0                     | 0                             | 1,000                        | 0                          | 0                          |
|              |                            | Cell 2               | 0                     | 0                             | 4,500                        | 0                          | 0                          |
|              |                            | Cell 3               | 0                     | 0                             | 15,000                       | 0                          | 0                          |
| Apr.<br>1975 | 30                         | Infusant             | -                     | -                             | -                            | -                          | -                          |
|              |                            | Cell 1               | 0                     | 0                             | 4,200                        | 0                          | 1,400                      |
|              |                            | Cell 2               | 0                     | 0                             | 14,000                       | 0                          | 1,000                      |
|              |                            | Cell 3               | 0                     | 0                             | 10,000                       | 0                          | 800                        |
| May<br>1975  | 8                          | Infusant             | -                     | -                             | -                            | -                          | -                          |
|              |                            | Cell 1               | 0                     | 2,400                         | 2,500                        | 400                        | 8,500                      |
|              |                            | Cell 2               | 0                     | 1,400                         | 2,500                        | 1,000                      | 14,000                     |
|              |                            | Cell 3               | 0                     | 200                           | 10,000                       | 1,900                      | 8,000                      |
| June<br>1975 | 8                          | Infusant             | -                     | -                             | -                            | -                          | -                          |
|              |                            | Cell 1               | 0                     | 1,200                         | 0                            | 0                          | 10,000                     |
|              |                            | Cell 2               | 0                     | 5,000                         | 0                            | 0                          | 12,000                     |
|              |                            | Cell 3               | 200                   | 400                           | 2,000                        | 400                        | 4,500                      |
| July<br>1975 | 30                         | Infusant             | -                     | -                             | -                            | -                          | -                          |
|              |                            | Cell 1               | 2,300                 | 6,400                         | 0                            | 0                          | 7,500                      |
|              |                            | Cell 2               | 3,200                 | 3,200                         | 0                            | 0                          | 7,500                      |
|              |                            | Cell 3               | 1,200                 | 1,200                         | 0                            | 0                          | 2,500                      |
| Aug.<br>1975 | 8                          | Infusant             | -                     | -                             | -                            | -                          | -                          |
|              |                            | Cell 1               | 1,200                 | 4,400                         | 0                            | 0                          | 5,500                      |
|              |                            | Cell 2               | 2,000                 | 4,500                         | 0                            | 0                          | 5,000                      |
|              |                            | Cell 3               | 1,200                 | 1,500                         | 0                            | 0                          | 3,200                      |

TABLE 2. MONTHLY ABUNDANCE DATA (CONTINUED)

| Month         | No. of<br>Sampling<br>Days | Sampling<br>Locations                  | Diatoms<br>No./ml              | Pteropods<br>No./ml              | Rotifers<br>No./ml       | Cyprinids                    | Precipitation<br>(Normal<br>Deviation)<br>Inches |
|---------------|----------------------------|----------------------------------------|--------------------------------|----------------------------------|--------------------------|------------------------------|--------------------------------------------------|
| Sept-<br>1976 | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>2,000<br>1,500<br>1,000   | -<br>many<br>many<br>few         | -<br>800<br>1,500<br>400 | -<br>none<br>none<br>none    | -<br>2.5<br>(6.0)                                |
| Oct-<br>1976  | 30                         | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>4,000<br>3,500<br>3,000   | -<br>moderate<br>moderate<br>few | -<br>400<br>200<br>100   | -<br>none<br>few<br>many     | -<br>6.2<br>(4.5)                                |
| Nov-<br>1976  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>11,500<br>13,300<br>8,400 | -<br>moderate<br>few<br>none     | -<br>0<br>0<br>0         | -<br>none<br>few<br>moderate | -<br>2.4                                         |
| Dec-<br>1976  | 8                          | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>7,000<br>1,000<br>6,400   | -<br>2,000<br>0<br>0             | -<br>0<br>200<br>0       | -<br>none<br>none<br>none    | -<br>1.8<br>(1.0)                                |
| Jan-<br>1975  | 30                         | Influent<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>400<br>400<br>0           | -<br>1,000<br>few<br>0           | -<br>0<br>0<br>0         | -<br>none<br>few<br>few      | -<br>1.7<br>(0.4)                                |
| Feb-<br>1975  | 8                          | Influent<br>Cell 1<br>Cell 2           | -<br>800<br>200                | -<br>500<br>400                  | -<br>0<br>0              | -<br>none<br>few             | -<br>1.5<br>(1.1)                                |

TABLE 1. MONTHLY AVERAGE DATA (CONTINUED)

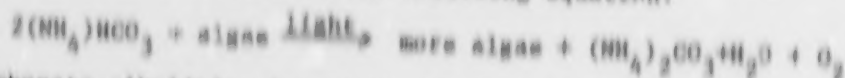
| Month        | No. of<br>Sampling<br>Days | Sampling<br>Locations                   | Macranns<br>No./ft.            | Pontanna<br>No./ft.    | Notifera<br>No./ft.        | Cylops                                | Precipitation<br>(Normal<br>Evaporation)<br>Inches |
|--------------|----------------------------|-----------------------------------------|--------------------------------|------------------------|----------------------------|---------------------------------------|----------------------------------------------------|
| Mar.<br>1975 | 8                          | Influent:<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>0<br>0<br>0               | -<br>few<br>few<br>few | -<br>0<br>0<br>0           | -<br>none<br>few<br>moderate          | 2.0<br>(1.7)                                       |
| Apr.<br>1975 | 30                         | Influent:<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>1,400<br>1,300<br>800     | -<br>1,350<br>0<br>0   | -<br>600<br>2,000<br>1,200 | -<br>some<br>many<br>few              | 3.0<br>(3.1)                                       |
| May<br>1975  | 8                          | Influent:<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>8,800<br>15,800<br>8,400  | -<br>600<br>400<br>800 | -<br>800<br>0<br>0         | -<br>few<br>moderate<br>many          | 5.5<br>(4.4)                                       |
| June<br>1975 | 8                          | Influent:<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>10,400<br>12,400<br>4,800 | -<br>400<br>0<br>200   | -<br>3,000<br>800<br>0     | -<br>moderate<br>moderate<br>moderate | 3.5<br>(6.1)                                       |
| July<br>1975 | 30                         | Influent:<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>7,600<br>7,400<br>2,800   | -<br>0<br>0<br>0       | -<br>0<br>0<br>0           | -<br>few<br>few<br>few                | 0.4<br>(6.0)                                       |
| Aug.<br>1975 | 8                          | Influent:<br>Cell 1<br>Cell 2<br>Cell 3 | -<br>5,800<br>5,800<br>3,200   | -<br>0<br>0<br>0       | -<br>0<br>0<br>0           | -<br>few<br>few<br>few                | 2.5<br>(7.8)                                       |

One by-product of the effluent flow measurements was the ability to note significant wind effects. The wind action over the surface of the pond surface produced waves which affected the float movement and produced an oscillation on the recorder. The magnitudes of the oscillations were in proportion to the wind velocity over the pond surfaces.

#### pH AND ALKALINITY

The pH and alkalinity have long been used as parameters for wastewater pond operations. The metabolism of organic matter in the absence of adequate oxygen results in the production of organic acids and a depression of the pH. The organic acids tend to be titrated in the alkalinity determination so that the alkalinity appears to increase even though the pH is decreasing. Nitrification can also produce a depressed pH but alkalinity is also destroyed. Thus, the pH and alkalinity measurements can indicate which of these two reactions is occurring. Under aerobic conditions the bacterial metabolism tends to cause the pH to increase along with an increase in alkalinity. The ammonia released from the protein metabolism reacts with carbon dioxide and water to form ammonia bicarbonate.

The algae also affect the pH in the ponds. Synthesis of new algae cells requires carbon dioxide either directly or from alkalinity. Removal of carbon dioxide results in a rise in pH with a shift in the form of alkalinity. The shift in alkalinity is indicated in the following equation.



The carbonate alkalinity formed by the metabolic reaction is the same as the original bicarbonate alkalinity but the pH is higher.

Examination of the pH data in Tables 2 and Table A-3, indicates that the pH of the raw wastewaters varied between 7.3 and 8.0, averaging 7.7 for the year. The pH in Cell 1 decreased from 8.2 in September to 7.8 in November. The pH remained at 7.8 until March when it jumped to 8.5 as the result of a sudden bloom of algae. The pH decreased to 7.9 in May and then jumped again to 8.5 in June. The pH was 8.1 in August. In effect, the initial decrease in pH was the direct result of slowing metabolism at the start of the fall period. The cold weather kept metabolism down and the pH reflected the low rate of metabolism. The algae blooms in March and June were clearly reflected in the pH data.

The pH in Cell 2 averaged 8.4 and showed similar trends as in Cell 1. The pH fell with the onset of cold weather and rose with the periodic algae blooms. The pH in Cell 3 was the highest, averaging 8.8. The pH in Cell 3 ranged from 8.4 to 9.1. At no time did the pH rise sufficiently to be toxic.

The alkalinity data are presented in Tables 2 and A-4. It can be seen that the alkalinity in the raw wastewaters were relatively constant until the dry period in July and August. The alkalinity measurements on the raw wastewaters included organics and phosphates as well as normal bicarbonate alkalinity. The impact of the organics in the raw wastewaters is clearly evident in the alkalinity change from the raw wastewaters to Cell 1. The alkalinity in Cell 1 averaged 120 mg/l and ranged from a low of 250 mg/l to a high of 360 mg/l.

Maximum alkalinity in Cell 1 was reached in January when metabolism was low and was a minimum in July. The other two ponds followed the same trend in alkalinity with Cell 2 averaging 280 mg/l and Cell 3 averaging 240 mg/l. The drop in alkalinity through the 3 cells is the result of some phosphate reduction and some organic reductions. There may have been some calcium precipitation but the pH was not high enough for much precipitation. Removal of phosphorus by metabolism and settling of the microbial cells could have produced the changes observed in the alkalinity data.

#### TEMPERATURE AND DISSOLVED OXYGEN

The temperature of the ponds are presented in Tables 2 and A-5. The data reflect the seasonal variations in temperature. The raw wastewaters averaged 17°C with monthly averages ranging from a low of 12°C in January and February to a high of 26°C in August. All three ponds had essentially the same temperatures, averaging 19°C for the year. The minimum monthly temperature was 2.9°C in February with the maximum monthly temperature reaching 27°C in July. This wide range of temperature had a very pronounced effect on the microbiology and biochemistry of these three cells.

The dissolved oxygen data are tabulated in Tables 2 and A-6. The dissolved oxygen in the wastewater ponds is the result of algal metabolism, surface aeration and bacterial metabolism. The algae release oxygen as a result of their metabolism while bacteria use oxygen in their metabolism. Surface aeration can result in loss of oxygen from the pond if the surface is supersaturated with oxygen or can result in additional transfer to the pond if there is a deficit at the surface. The dissolved oxygen in the raw wastewaters was essentially zero due to the prolonged retention in the wet well prior to pumping to the ponds.

The dissolved oxygen in Cell 1 varied between 1.8 mg/l in July and 15 mg/l in March on a monthly average and gave an annual average dissolved oxygen of 6.0 mg/l. The lowest DO values occurred during the cold weather when there was little algae growth and ice covered the ponds part of the time and during the hot weather when the temperature was the highest. The dissolved oxygen was higher in Cell 2 than in Cell 1, reflecting the lower bacterial demand and the additional algae growth. The annual average DO in Cell 2 was 9.5 mg/l with monthly averages ranging from 3.6 mg/l in July to 16 mg/l in February. Cell 3 showed slightly higher DO levels than Cell 2, averaging 11 mg/l with a low of 4.2 mg/l and a high of 19 mg/l. Dissolved oxygen is not a problem in the total system although Cell 1 approaches very low DO values.

Special samples indicated the DO tended to decrease with depth and reached zero at the bottom of each cell. Wind mixing was important in the vertical distribution of DO in each cell. With good wind mixing there was little DO difference from the surface to the bottom of each cell. The bottoms of all cells were always at zero DO.

#### BIOCHEMICAL OXYGEN DEMAND

The 5 day Biochemical Oxygen Demand test is still one of the most important



measurements for determining effluent quality from any wastewater treatment system. The raw wastewaters showed a variable BOD<sub>5</sub> concentration averaging 270 mg/l with a monthly minimum of 180 mg/l in June and a monthly maximum of 400 mg/l. The BOD<sub>5</sub> data are given in Tables 2 and A-7. Approximately half of the BOD<sub>5</sub> in the raw wastewaters was soluble, averaging 140 mg/l. The BOD data indicated the sewage was close to normal for a small residential community.

The BOD<sub>5</sub> in Cell 1 averaged 49 mg/l total BOD<sub>5</sub> and 14 mg/l soluble BOD. In effect, 90% of the soluble BOD<sub>5</sub> was removed in Cell 1. The BOD<sub>5</sub> data indicated the impact of the microbial solids. Cell 2 dropped the total BOD<sub>5</sub> to 36 mg/l with 7.9 mg/l soluble BOD<sub>5</sub>. The major factor in the BOD<sub>5</sub> results were the algae since little organic matter was available for the bacteria in Cell 2. Cell 3 averaged 24 mg/l BOD<sub>5</sub> with only 4.0 mg/l soluble BOD<sub>5</sub>. There was little variation in the soluble effluent BOD<sub>5</sub>, 1.5 mg/l to 7.0 mg/l. The total effluent BOD<sub>5</sub> ranged between 15 mg/l and 34 mg/l. Minimum effluent quality occurred in the cold weather when algae growth was low and the ponds were covered with ice. The reduced mixing in the ponds permitted the algae to settle out.

#### CHEMICAL OXYGEN DEMAND

The Chemical Oxygen Demand (COD) is a measure of the total organics both biodegradable and non-biodegradable. The COD data are presented in Tables 2 and A 9-10. The COD of the raw wastewaters averaged 560 mg/l with a monthly minimum of 380 mg/l in May and a maximum of 640 mg/l in both September and March. The soluble COD average 210 mg/l, indicating that most of the COD in the wastewaters was related to the suspended solids. The monthly averages for the COD varied from 120 mg/l to 280 mg/l.

The COD in Cell 1 averaged 300 mg/l with 73 mg/l soluble COD. In view of the low soluble BOD<sub>5</sub> in Cell 1, it is apparent that there is some non-biodegradable COD in solution, normal for most biotreatment systems. This is confirmed by the slight soluble COD decrease through Cells 2 and 3. There are very little biodegradable organics left in the final effluent even though the soluble COD averaged 52 mg/l. The total COD dropped to 160 mg/l in Cell 2 and to 130 mg/l in Cell 3. The COD data indicated considerable suspended solids which were slowly biodegradable.

#### SUSPENDED SOLIDS

The suspended solids concentrations are given in Tables 2 and A-11-12. The average suspended solids in the raw wastewaters was 280 mg/l with 220 mg/l volatile suspended solids. It appears that the suspended solids are normal for domestic sewage, averaging 79% volatile matter. Maximum suspended solids occurred in July and August while minimum suspended solids occurred in May. It is obvious that the high rainfall in May produced dilution without carrying soil particles as occurred in the early spring with the thaw. Probably all tiny particles easily carried into the sewers were already removed by May. The COD data reflected the early runoff as well as the suspended solids data.

The three cells showed a progressive decrease in suspended solids dropping from an average of 110 mg/l in Cell 1 to 88 mg/l in Cell 2 and 67 mg/l in Cell 3.



At no time did the final effluent meet current EPA criteria for 30 mg/l suspended solids on a monthly average. The suspended solids are largely living and dead microorganisms. The percentage volatile suspended solids increased through the 3 cells from 84% in Cell 1 to 86% in Cell 2 to 88% in Cell 3. This change is typical for biotreatment systems having dispersed microbial populations and essentially a soluble organic substrate.

#### PHOSPHORUS

The change in phosphorus is very important since phosphorus is a key nutrient in the growth of microbial cells. The phosphorus data are shown in Tables 2 and A-13. The phosphorus in the raw wastewater averaged 18 mg/l, higher than normal but reasonable for the lower flow and higher organic concentrations. The phosphorus dropped to 9.6 mg/l in Cell 1, to 6.7 mg/l in Cell 2 and to 3.9 mg/l in Cell 3. It appeared that the phosphorus reduction was related to the microbial metabolism reactions after the initial settling which occurred in Cell 1. Maximum phosphorus concentrations occurred in February in all 3 cells. The accumulation of phosphorus was the result of the low temperatures slowing metabolism. The increased temperature in March stimulated microbial growth and a sharp drop in phosphorus. These data indicate that the ponds are reasonably effective in reducing the phosphorus in the wastes. When the impact of evaporation is considered, the reduction in phosphorus is greater than indicated by the concentration data.

#### NITROGEN

Nitrogen is a key nutrient in microbial metabolism the same as phosphorus. The raw wastewaters contain organic nitrogen and ammonia nitrogen which can undergo changes as a result of microbial metabolism. Initial reactions tend to convert the organic nitrogen in the raw wastewaters to ammonia nitrogen. Some of the ammonia nitrogen is processed into organic nitrogen in the form of microbial cells. Under aerobic conditions some of the ammonia nitrogen can be oxidized to nitrites or even to nitrates. The nitrogen data are given in Tables 2, A-16 and A-17. The Kjeldahl nitrogen measurements include both organic nitrogen and ammonia nitrogen. The Kjeldahl nitrogen concentration in the raw wastewaters averaged 51 mg/l with a minimum of 43 mg/l and a maximum of 68 mg/l. Approximately half, 25 mg/l of the Kjeldahl nitrogen was ammonia nitrogen. The Kjeldahl nitrogen dropped to 21 mg/l in Cell 1 with 9.3 mg/l ammonia nitrogen. The change in ammonia nitrogen reflects microbial metabolism. Cell 1 showed some nitrites in the late fall and considerable nitrites in November. The nitrate nitrogen averaged 1.9 mg/l in Cell 1 with quite a variation with time and temperature.

Cell 2 showed a drop in Kjeldahl nitrogen to 14 mg/l with 4.8 mg/l ammonia nitrogen. There were some nitrites in the spring and in the fall. The nitrate nitrogen averaged 1.4 mg/l with peaks in November and May. Cell 3 had 9.0 mg/l Kjeldahl nitrogen, 1.1 mg/l ammonia nitrogen, and 0.7 mg/l nitrate nitrogen. It appears that ammonia nitrogen approached zero during the summer and the fall, limiting further microbial reaction. When ammonia nitrogen dropped to a minimum in the summer, the microbes reduced a portion of the available nitrates. Nitrification occurred slowly with time and temperature important in the build up of the nitrifying bacteria.

## COLIFORMS

Coliform analyses were made for both total coliforms and fecal coliforms. The coliform data are given in Tables 2 and A-18 and A-19. The total coliforms in the raw wastewaters were normal having an annual average of  $9.4 \times 10^6/100$  ml with monthly median values from  $4.1 \times 10^6/100$  ml to  $24 \times 10^6/100$  ml. The fecal coliforms averaged  $2.6 \times 10^6/100$  ml with a range from  $0.9 \times 10^6/100$  ml to  $4.3 \times 10^6/100$  ml. The fecal coliforms were approximately one fourth of the total coliform population, which is consistent for normal domestic wastewaters.

There was a definite reduction in coliforms through the three ponds. Both the total coliforms and the fecal coliforms dropped to 240,000/100 ml and 32,000/100 ml, respectively, in Cell 1. The drop in coliforms can be related to normal predation by higher animals and die off as a result of competition for food. The reduction in coliforms through Cell 2 and Cell 3 is as anticipated when one considers the retention period with little food available for growth and normal competition with other bacteria. The final effluent showed a low coliform count with maximum reduction occurring in the warm summer period when competition and predation were a maximum. The highest effluent coliform counts occurred in the winter months when microbial activity is a minimum due to the lower temperature.

## ALGAE, PROTOZOA AND HIGHER ANIMALS

The algae and the protozoa, together with higher microscopic animals are important to the success of any oxidation pond system. It has long been recognized that bacteria stabilize the organic matter in the wastewaters with algae and protozoa being secondary organisms. The algae utilize sunlight for their energy source and metabolize the inorganic components in the liquid to form new cells. One end product of algae metabolism is oxygen which the bacteria use to maintain aerobic metabolism. While the oxygen from algae metabolism is available for the bacteria to use, the growth of algae results in the production of additional organic suspended solids which must be considered in the overall treatment process. A very heavy algae growth can actually increase the suspended organic solids over that entering the ponds with the raw wastewaters. The protozoa and the higher microbial animals can help reduce the bacteria and the algae populations by metabolism. Since very little information was available concerning the quantitative relationships on the growth of algae in wastewater ponds, an effort was made to determine the growth of the major species of algae. Only qualitative measures of protozoa and higher animals was possible in this study. The data on the algae and the microscopic animals are given in Tables 2 and in Table A-20 through A-39 in the Appendix.

### Green, Non-Motile Algae.

The green, non-motile algae were the predominant type of algae in these ponds with Scenedesmus, Chlorella, Actinastrum, Ankistrodesmus, and Microactinium being the major families. No effort was made to differentiate species although it was recognized that several different species occurred. Scenedesmus occurred in all ponds all year round with greater growth in Cell 1 than in Cells 2 and 3. The increased numbers of Scenedesmus in the winter came about from the fact that Scenedesmus tended to fragment. Normally, a Scenedesmus consisted of four cells

in normal clusters. During the winter the Scenedesmus fragmented into one and two cell fragments. Each clump was counted as a simple count rather than as to the number of individual cells. Chlorella also grew best in the pond with the most nutrients, Cell 1. Peak growth occurred in March when each milliliter of water in Cell 1 contained a median of  $2.8 \times 10^6$  Chlorella. Chlorella were readily metabolized by the protozoa and the higher animals and quickly dropped as the temperature increased, stimulating greater animal growth. Actinastrum and Ankistrodesmus predominated in the summer and fall and dropped out during the cold weather. Microactinium were able to grow only during the early spring when temperature and nutrients favored successful competition.

#### Green Motile Algae:

The green motile algae have an advantage over the non-motile algae in their ability to move to the point of optimum nutrient and energy concentrations. The major groups of green motile algae observed in these ponds included Chlamydomonas, Euglena, Phacus, Carteria, Chlorogonium and Pandorina. The Chlamydomonas tended to increase in the fall and the spring but were present all year long. Euglena dropped out of Cell 1 in November and December when cold weather first set in but increased rapidly with warm weather. Yet in Cells 2 and 3 there was good growth in the cold months. It appears to be more a case of available nutrients than temperature alone. Phacus grew best during the winter months and dropped out when the temperature increased in the spring and summer. On the other hand, Carteria predominated in the spring and fall in Cell 1 with extension into the winter in Cell 3. It appeared the Chlorogonium liked the warm weather. Pandorina was noted only in the fall in the first two cells. As a rule, the motile green algae grew slightly better in Cell 2 than in the other two cells.

#### Blue-Green Algae:

One concern with wastewater ponds is the growth of blue-green algae. These algae tend to form clumps and float to the surface, creating a scum which prevents light transmission and oxygen transfer into the body of the pond. Adverse environmental conditions soon result if the blue-green algae persist. Oscillatoria was the major blue-green algae in this system. Oscillatoria formed short filaments which were motile. These filaments were composed of many separate cells. The counting procedure resulted in a filament count even though the length of the filaments varied considerably. The Oscillatoria tended to grow better in Cell 3 than in Cell 2 or Cell 1. In all cells, the Oscillatoria grew best in the warm weather and essentially dropped out in the very cold weather. Anacystis and Agmenellum also grew best during the warm weather. Only in Cell 1 was there any blue-green algae scum. The high populations during the summer months tended to permit scum formation composed of Oscillatoria and Anacystis. The surface tension differences between Cell 1 and Cell 2 appear to make a difference in scum formation since the blue-green algae population was essentially the same in both cells. At no time was there noticeable scum in Cell 3. Wind action and rain were important in reducing the magnitude of the scum on Cell 1. Good wind action quickly moved the scum to the edge of the pond and slowly broke it up by wave action.

#### Yellow-Brown Motile Algae:

The yellow-brown motile algae consisted of Cryptomonas and Halimnion. Cryptomonas tended to grow best during the cooler periods when the other algae did not

grow as well. Growth was best in Cell 3 indicating competition with other algae had an important effect on the Cryptomonas. Chlorella was most noticeable in the fall and spring. The yellow-brown algae were never a major group but were definitely a factor in the overall algae population.

#### Diatoms:

Diatoms grew readily in these ponds with Nitzschia being in sufficient numbers to permit differentiation from the other diatoms. Nitzschia grew best in the spring and fall with few in the winter. The same pattern was followed by the other diatoms. The diatoms tended to grow best in Cells 1 and two where nutrients were high.

#### Protozoa and Higher Animals:

The free swimming ciliated protozoa were present in large numbers in Cell 1 with decreasing populations in Cells 2 and 3. It was interesting to note the protozoa were the densest in the spring and fall. Rotifers and Cyclops were present from time to time. Large numbers of rotifers were observed in the spring and in the fall. Cyclops also occurred most in the spring and in the fall. The rotifers and Cyclops tended to predominate more in Cell 3 and helped reduce the excess microbes in the effluent. Few higher animals were noted in July and August. The diurnal variation in dissolved oxygen in the summer appeared to have an adverse effect on the growth of the protozoa and the higher animals. With lower temperatures and lower rates of metabolism, the microscopic animals found the environment suitable for good growth.



## SECTION VII

### DISCUSSION OF RESULTS

The data collected at Eudora, Kansas, followed typical patterns for a small midwestern community with essentially residential wastewaters. The only industry of any size in Eudora was a small, custom slaughterhouse which handled a few animals on request from local farmers. The amount and characteristics of wastewater from this plant did not have any adverse effect on the waste characteristics.

The flow of 0.0026 l/s (61 gpd) per person and an average  $BOD_5$  of 270 mg/l gave a daily per capita  $BOD_5$  production of 60.6 gms (0.13 lbs/c/d). The per capita suspended solids production was 62.9 gms (0.14 lbs/c/d). Both of these values are normal for a small community. The design criteria of 0.0043 l/s (100 gpd), DWF, was considerably larger than needed. The organic load design criteria, 77 gms/cap./day (0.17 lbs/c/d) was also conservative. These factors combined to produce a treatment system 64 percent larger than needed based on flow and 27 percent larger than needed based on  $BOD_5$  applied.

Two interesting factors which affect wastewater ponds which do not affect other treatment processes to the same extent are rainfall and evaporation. The 34 inches of rainfall during the study period is close to normal. Direct rainfall on the water surfaces added  $67.0 \times 10^6$  liters (17.9 million gallons) to the three ponds. The total wastewater flow was only  $193 \times 10^6$  liters (52.2 million gallons). Since rainfall did not occur uniformly over the time period of this study, the impact was varied and hard to ascertain directly. A one inch rainfall during the spring had a different effect than a one inch rainfall in the late summer. The V notch weir on the discharge from Cell 3 controlled the variations in flow to a large extent. Since the quantity of extra flow created by the one inch rainfall was the same, the primary difference was in the time period over which the extra flow was discharged. In the spring the extra flow was discharged faster than in the summer.

Evaporation results in removal of water without corresponding removal of contaminants. Normal evaporation in this area averages 47 inches/year. The removal of  $92.6 \times 10^6$  liters by evaporation exceeded the amount added by rainfall. The difference is compounded even more when one considers that rainfall and evaporation occur at different times during the year. Overall, evaporation results in the loss of 13% of the wastewaters entering the ponds. Seepage results in an even greater loss. The loss of water by evaporation makes precise evaluation of seepage losses difficult.

The  $BOD_5$  and the COD data are useful in evaluating the characteristics of the raw wastewaters as well as of the three ponds. Fundamental concepts indicated that the 5 day  $BOD$  of wastewaters is approximately 0.58 times the biodegradable COD. Using the data for the raw wastewaters, it was found that the biodegrad-



able COD was 470 mg/l based on the total sample and 340 mg/l based on the soluble samples. These data indicated that 90 mg/l of the COD was non-biodegradable with all the soluble COD being biodegradable. Of the 350 mg/l suspended COD, 26% was not biodegradable. In Cell 1 the biodegradable COD dropped to 84 mg/l with 24 mg/l in solution. The non-biodegradable COD was 110 mg/l with 49 mg/l in solution. The 61 mg/l non-biodegradable suspended COD reflected the large number of dead microbial cells; 48 percent of the volatile suspended solids in Cell 1 were inert.

The biodegradable COD dropped to 63 mg/l in Cell 2 with 14 mg/l in solution. The non-biodegradable COD averaged 100 mg/l with 48 mg/l in solution. The non-biodegradable suspended COD was 52 mg/l, 53 percent of the volatile suspended solids. In Cell 3, the biodegradable COD dropped to 41 mg/l with only 7 mg/l in solution. The non-biodegradable COD was 90 mg/l with 45 mg/l in solution. The non-biodegradable suspended COD was 45 mg/l, 58 percent of the volatile suspended solids. It was interesting to note that all of the soluble organics in the raw wastewaters were biodegradable and the soluble organics in the three ponds had a fairly constant concentration of non-biodegradable organics, 43-49 mg/l as COD. It has been noted that biotreatment systems tend to produce a non-biodegradable, soluble, organic residue. This material is probably related to the slime layer washed from the cells or released as a result of protozoa and higher animal metabolism.

These COD and BOD relationships reflect the biochemical changes occurring in the three ponds. The major stabilization reaction occurred in Cell 1 with little reaction other than endogenous respiration occurring in Cells 2 and 3. If the microbial solids could be removed from the first pond, the effluent quality would be satisfactory for discharge. Cells 2 and 3 simply hold the microbes so they can undergo endogenous respiration. The decrease in coliform bacteria showed the effect of starvation and predation. These bacteria found the ponds unsuitable and slowly died off. The extra two cells helped produce significant die off of the coliform bacteria and helped produce an effluent close to the 200 fecal coliform/100 ml.

With a theoretical retention time slightly over one year based on flow less evaporation, the algae had a real opportunity to grow, die off, and to repeat the cycle many times over. In effect the nutrients were slowly turned over with each pond developing its own dynamic population of mixed microbes. Temperature and nutrients seemed to play the greatest role in selection of the various group of microorganisms. It was interesting to note the explosion in *Chlorella* in the early spring. The small size of the *Chlorella* gave them a distinct advantage as the temperature warmed up. Their growth then stimulated the protozoa and the higher animal predators. The metabolism of the *Chlorella* let other algae compete for the nutrients. The different growth patterns clearly reflected the dynamic aspects of the ponds.

The growth of the algae required nitrogen, phosphorus and carbon. The changes in these three elements which occurred in the ponds reflects the growth of the algae. When the algae die, a part of the cell tissue undergoes lysing with a return of nutrients to the liquid but a part of the cell tissue remains inert and settles out. The dead cell tissue contains some nutrients and is the primary mechanism for the removal of the nutrients from the wastewaters. The

long retention period of these three ponds permitted excellent reduction in nutrients, 81 percent of the total nitrogen and 78 percent of the phosphorus. The importance of the algae growths to the nutrient reductions is shown by the greater nutrient reductions in the summer than in the winter. The warmer temperature stimulates faster growth-death cycles and a greater demand for nutrients. It appeared in this system that nitrogen became the limiting nutrient for a few days during the summer. The alkalinity supplied the needed carbon for growth. As carbon was taken up, the pH and the dissolved oxygen both increased. There was enough alkalinity and carbon dioxide that the pH did not rise high enough to slow down metabolism or precipitate significant quantities of phosphate.

The temperature effect on the microorganisms was readily apparent in the growth cycles. As the temperature decreased, microbial metabolism decreased. Yet, it should be recognized that there was significant metabolism during the winter period. Even under the ice, the algae grew and released oxygen, reaching supersaturation in Cells 2 and 3. The bacteria kept the oxygen reduced in Cell 1 during the coldest period but the dissolved oxygen level was well above zero. Rapid bacterial growth in the spring produced a sharp drop in dissolved oxygen as one would expect.

Overall, the wastewater pond system showed normal biochemical reactions. The suspended solids in the raw wastewaters quickly settled out in Cell 1 and were replaced by microbial suspended solids. Essentially all of the BOD was metabolized in Cell 1. The remaining two cells in the pond system simply recycled nutrients through algal metabolism with a slow reduction by sedimentation of dead cell material. The growth of the various groups of algae was primarily controlled by temperature. None of the major nutrients, C, N or P, were limiting in this system although N approached the crucial limit during the summer. Protozoa and higher animals grew readily on the bacteria and the algae with large growth surges dependent upon the readily metabolizable microbes. The final effluent after one year retention in the ponds was unable to meet EPA Secondary Effluent Criteria of 30 mg/l suspended solids because of the large amount of suspended solids created by dead microbial cells. The light weight characteristics of this material permitted the suspended solids to remain in suspension with only slight wind action. The effect of the wind action and sedimentation was clearly demonstrated by the fact that the lowest effluent suspended solids concentrations were produced in December and January when ice cover existed on Cell 3. Rainfall and evaporation are important factors that need to be considered in evaluating wastewater ponds since they can produce major changes in the discharge from the ponds.

This wastewater pond system was effective in treating the wastewaters with a minimum effort. As the load increases, the system should continue to provide reasonable treatment with little additional effort. The discharge of dispersed suspended solids creates a minor problem but does not pose a threat to the receiving stream. It was noted that large fish congregated at the pond discharge because of the readily available source of food. Where reasonable dilution exists to the effluent does not raise the suspended solids concentration significantly in the receiving water, the effluent from wastewater ponds such as this one at Eudora should not pose a pollution problem for the receiving stream.

## SECTION VIII

### REFERENCES

1. Bayson, G. M. and Ryckman, D. W., "Evaluation of Lagoon Performance in Light of 1965 Water Quality Act", 2nd Inter. Symposium for Wastewater Lagoons, Kansas City, Mo. (1970).
2. Standard Methods for the Examination of Water and Wastewater, 13th Edition, American Public Health Association, New York (1971).
3. Methods for Chemical Analysis of Water and Wastes, EPA-625/6-74-003, U.S. Environmental Protection Agency, (1974).

# APPENDIX

| <u>Table No.</u> | <u>Title</u>              |
|------------------|---------------------------|
| A-1              | Influent Flow             |
| A-2              | Effluent Flow             |
| A-3              | pH                        |
| A-4              | Alkalinity                |
| A-5              | Temperature               |
| A-6              | Dissolved Oxygen          |
| A-7              | Total BOD <sub>5</sub>    |
| A-8              | Soluble BOD <sub>5</sub>  |
| A-9              | Total COD                 |
| A-10             | Soluble COD               |
| A-11             | Suspended Solids          |
| A-12             | Volatile Suspended Solids |
| A-13             | Total Phosphorus          |
| A-14             | Total Kjeldahl Nitrogen   |
| A-15             | Ammonia Nitrogen          |
| A-16             | Nitrite Nitrogen          |
| A-17             | Nitrate Nitrogen          |
| A-18             | Total Coliforms           |
| A-19             | Fecal Coliforms           |
| A-20             | Scenedesmus               |
| A-21             | Chlorella                 |
| A-22             | Actinastrum               |
| A-23             | Ankistrodesmus            |
| A-24             | Microactinium             |
| A-25             | Chlamydomonas             |
| A-26             | Euglena                   |
| A-27             | Phacus                    |
| A-28             | Carteria                  |
| A-29             | Chlorogonium              |
| A-30             | Pandorina                 |
| A-31             | Oscillatoria              |
| A-32             | Anacystis                 |
| A-33             | Agmenellum                |
| A-34             | Mitochondria              |
| A-35             | Diatoms                   |
| A-36             | Protozoa                  |
| A-37             | Rotifers                  |
| A-38             | Cryptomonas               |
| A-39             | Mallomonas                |
| A-40             | Weather Data              |

TABLE A-1. RAW WASTEWATER FLOW  
1.0 MGD = 43.81 l/sec

| FLOW<br>(gallons/day) |         | FLOW<br>(gallons/day) |            |         |         |
|-----------------------|---------|-----------------------|------------|---------|---------|
| September             | 1       | 110,000               | October 12 | 142,000 |         |
|                       | 2       | 172,000               | 13         | 149,000 |         |
|                       | 3       | 175,000               | 14         | 162,000 |         |
|                       | 4       | 173,000               | 15         | 168,000 |         |
|                       | 5       | 170,000               | 16         | 165,000 |         |
|                       | 6       | 168,000               | 17         | 155,000 |         |
|                       | 7       | 165,000               | 18         | 150,000 |         |
|                       | 8       | 163,000               | 19         | 142,000 |         |
|                       | 9       | 159,000               | 20         | 135,000 |         |
|                       | 10      | 155,000               | 21         | 129,000 |         |
|                       | 11      | 154,000               | 22         | 124,000 |         |
|                       | 12      | 157,000               | 23         | 122,000 |         |
|                       | 13      | 150,000               | 24         | 118,000 |         |
|                       | 14      | 150,000               | 25         | 126,000 |         |
|                       | 15      | 148,000               | 26         | 118,000 |         |
|                       | 16      | 144,000               | 27         | 129,000 |         |
|                       | 17      | 140,000               | 28         | 120,000 |         |
|                       | 18      | 143,000               | 29         | 111,000 |         |
|                       | 19      | 142,000               | 30         | 126,000 |         |
|                       | 20      | 141,000               | 31         | 138,000 |         |
|                       | 21      | 137,000               | November   | 1       | 146,000 |
|                       | 22      | 132,000               |            | 2       | 192,000 |
|                       | 23      | 125,000               |            | 3       | 168,000 |
|                       | 24      | 121,000               |            | 4       | 150,000 |
|                       | 25      | 124,000               |            | 5       | 146,000 |
|                       | 26      | 120,000               |            | 6       | 140,000 |
|                       | 27      | 117,000               |            | 7       | 138,000 |
|                       | 28      | 115,000               |            | 8       | 136,000 |
|                       | 29      | 114,000               |            | 9       | 142,000 |
|                       | 30      | 111,000               |            | 10      | 144,000 |
|                       | October | 1                     | 105,000    | 11      | 134,000 |
| 2                     |         | 103,000               | 12         | 134,000 |         |
| 3                     |         | 108,000               | 13         | 132,000 |         |
| 4                     |         | 113,000               | 14         | 135,000 |         |
| 5                     |         | 109,000               | 15         | 134,000 |         |
| 6                     |         | 112,000               | 16         | 126,000 |         |
| 7                     |         | 134,000               | 17         | 132,000 |         |
| 8                     |         | 162,000               | 18         | 128,000 |         |
| 9                     |         | 161,000               | 19         | 128,000 |         |
| 10                    |         | 151,000               | 20         | 128,000 |         |
| 11                    |         | 148,000               | 21         | 126,000 |         |



TABLE A-1 RAW WASTEWATER FLOW (continued)  
1.0 MGD = 43.81 l/sec

| FLOW<br>(gallons/day) |    |         | FLOW<br>(gallons/day) |    |         |
|-----------------------|----|---------|-----------------------|----|---------|
| November              | 22 | 128,000 | January               | 1  | 117,000 |
|                       | 23 | 124,000 |                       | 2  | 116,000 |
|                       | 24 | 128,000 |                       | 3  | 114,000 |
|                       | 25 | 122,000 |                       | 4  | 120,000 |
|                       | 26 | 124,000 |                       | 5  | 128,000 |
|                       | 27 | 122,000 |                       | 6  | 122,000 |
|                       | 28 | 120,000 |                       | 7  | 120,000 |
|                       | 29 | 118,000 |                       | 8  | 118,000 |
|                       | 30 | 120,000 |                       | 9  | 126,000 |
|                       |    |         |                       | 10 | 123,000 |
| December              | 1  | 124,000 |                       | 11 | 122,000 |
|                       | 2  | 117,000 |                       | 12 | 123,000 |
|                       | 3  | 117,000 |                       | 13 | 116,000 |
|                       | 4  | 118,000 |                       | 14 | 117,000 |
|                       | 5  | 118,000 |                       | 15 | 114,000 |
|                       | 6  | 123,000 |                       | 16 | 116,000 |
|                       | 7  | 124,000 |                       | 17 | 117,000 |
|                       | 8  | 122,000 |                       | 18 | 114,000 |
|                       | 9  | 118,000 |                       | 19 | 114,000 |
|                       | 10 | 124,000 |                       | 20 | 112,000 |
|                       | 11 | 123,000 |                       | 21 | 111,000 |
|                       | 12 | 122,000 |                       | 22 | 112,000 |
|                       | 13 | 122,000 |                       | 23 | 112,000 |
|                       | 14 | 118,000 |                       | 24 | 111,000 |
|                       | 15 | 122,000 |                       | 25 | 112,000 |
|                       | 16 | 118,000 |                       | 26 | 112,000 |
|                       | 17 | 120,000 |                       | 27 | 108,000 |
|                       | 18 | 116,000 |                       | 28 | 117,000 |
|                       | 19 | 120,000 |                       | 29 | 115,000 |
|                       | 20 | 120,000 |                       | 30 | 113,000 |
|                       | 21 | 116,000 |                       | 31 | 120,000 |
|                       | 22 | 114,000 | February              | 1  | 155,000 |
|                       | 23 | 114,000 |                       | 2  | 163,000 |
|                       | 24 | 110,000 |                       | 3  | 161,000 |
|                       | 25 | 110,000 |                       | 4  | 155,000 |
|                       | 26 | 114,000 |                       | 5  | 162,000 |
|                       | 27 | 117,000 |                       | 6  | 168,000 |
|                       | 28 | 112,000 |                       | 7  | 168,000 |
|                       | 29 | 117,000 |                       | 8  | 165,000 |
|                       | 30 | 123,000 |                       | 9  | 163,000 |
|                       | 31 | 118,000 |                       |    |         |

TABLE A-1. RAW WASTEWATER FLOW (continued)

1.0 MGD = 43.81 l/sec

| FLOW<br>(gallons/day) |    |         | FLOW<br>(gallons/day) |    |         |
|-----------------------|----|---------|-----------------------|----|---------|
| February              | 10 | 165,000 | March                 | 25 | 146,000 |
|                       | 11 | 168,000 |                       | 26 | 146,000 |
|                       | 12 | 170,000 |                       | 27 | 165,000 |
|                       | 13 | 175,000 |                       | 28 | 165,000 |
|                       | 14 | 180,000 |                       | 29 | 160,000 |
|                       | 15 | 190,000 |                       | 30 | 159,000 |
|                       | 16 | 196,000 |                       | 31 | 160,000 |
|                       | 17 | 204,000 | April                 | 1  | 152,000 |
|                       | 18 | 192,000 |                       | 2  | 162,000 |
|                       | 19 | 202,000 |                       | 3  | 166,000 |
|                       | 20 | 200,000 |                       | 4  | 165,000 |
|                       | 21 | 204,000 |                       | 5  | 168,000 |
|                       | 22 | 202,000 |                       | 6  | 156,000 |
|                       | 23 | 202,000 |                       | 7  | 154,000 |
|                       | 24 | 200,000 |                       | 8  | 154,000 |
|                       | 25 | 197,000 |                       | 9  | 154,000 |
|                       | 26 | 194,000 |                       | 10 | 153,000 |
|                       | 27 | 190,000 |                       | 11 | 150,000 |
|                       | 28 | 189,000 |                       | 12 | 153,000 |
| March                 | 1  | 186,000 |                       | 13 | 150,000 |
|                       | 2  | 184,000 |                       | 14 | 160,000 |
|                       | 3  | 184,000 |                       | 15 | 150,000 |
|                       | 4  | 180,000 |                       | 16 | 150,000 |
|                       | 5  | 183,000 |                       | 17 | 150,000 |
|                       | 6  | 176,000 |                       | 18 | 144,000 |
|                       | 7  | 176,000 |                       | 19 | 144,000 |
|                       | 8  | 176,000 |                       | 20 | 140,000 |
|                       | 9  | 172,000 |                       | 21 | 144,000 |
|                       | 10 | 182,000 |                       | 22 | 140,000 |
|                       | 11 | 174,000 |                       | 23 | 138,000 |
|                       | 12 | 182,000 |                       | 24 | 144,000 |
|                       | 13 | 168,000 |                       | 25 | 146,000 |
|                       | 14 | 179,000 |                       | 26 | 141,000 |
|                       | 15 | 183,000 |                       | 27 | 140,000 |
|                       | 16 | 183,000 |                       | 28 | 142,000 |
|                       | 17 | 177,000 |                       | 29 | 132,000 |
|                       | 18 | 177,000 |                       | 30 | 132,000 |
|                       | 19 | 171,000 | May                   | 1  | 130,000 |
|                       | 20 | 165,000 |                       | 2  | 129,000 |
|                       | 21 | 158,000 |                       | 3  | 135,000 |
|                       | 22 | 160,000 |                       | 4  | 128,000 |
|                       | 23 | 158,000 |                       | 5  | 134,000 |
|                       | 24 | 152,000 |                       |    |         |

TABLE A-1. RAW WASTEWATER FLOW (continued)  
1.0 MGD = 43.81 l/sec

| FLOW<br>(gallons/day) |    |         | FLOW<br>(gallons/day) |    |         |
|-----------------------|----|---------|-----------------------|----|---------|
| May                   | 6  | 123,000 | June                  | 17 | 120,000 |
|                       | 7  | 129,000 |                       | 18 | 111,000 |
|                       | 8  | 126,000 |                       | 19 | 112,000 |
|                       | 9  | 123,000 |                       | 20 | 111,000 |
|                       | 10 | 126,000 |                       | 21 | 114,000 |
|                       | 11 | 130,000 |                       | 22 | 112,000 |
|                       | 12 | 128,000 |                       | 23 | 120,000 |
|                       | 13 | 122,000 |                       | 24 | 117,000 |
|                       | 14 | 123,000 |                       | 25 | 112,000 |
|                       | 15 | 124,000 |                       | 26 | 116,000 |
|                       | 16 | 122,000 |                       | 27 | 118,000 |
|                       | 17 | 123,000 |                       | 28 | 117,000 |
|                       | 18 | 117,000 |                       | 29 | 114,000 |
|                       | 19 | 124,000 |                       | 30 | 117,000 |
|                       | 20 | 118,000 | July                  | 1  | 114,000 |
|                       | 21 | 116,000 |                       | 2  | 116,000 |
|                       | 22 | 116,000 |                       | 3  | 110,000 |
|                       | 23 | 116,000 |                       | 4  | 108,000 |
|                       | 24 | 116,000 |                       | 5  | 100,000 |
|                       | 25 | 112,000 |                       | 6  | 100,000 |
|                       | 26 | 118,000 |                       | 7  | 106,000 |
|                       | 27 | 118,000 |                       | 8  | 104,000 |
|                       | 28 | 142,000 |                       | 9  | 100,000 |
|                       | 29 | 158,000 |                       | 10 | 100,000 |
|                       | 30 | 141,000 |                       | 11 | 102,000 |
|                       | 31 | 130,000 |                       | 12 | 106,000 |
| June                  | 1  | 123,000 |                       | 13 | 99,000  |
|                       | 2  | 128,000 |                       | 14 | 114,000 |
|                       | 3  | 129,000 |                       | 15 | 105,000 |
|                       | 4  | 123,000 |                       | 16 | 104,000 |
|                       | 5  | 126,000 |                       | 17 | 108,000 |
|                       | 6  | 122,000 |                       | 18 | 110,000 |
|                       | 7  | 117,000 |                       | 19 | 104,000 |
|                       | 8  | 116,000 |                       | 20 | 102,000 |
|                       | 9  | 120,000 |                       | 21 | 104,000 |
|                       | 10 | 118,000 |                       | 22 | 99,000  |
|                       | 11 | 126,000 |                       | 23 | 100,000 |
|                       | 12 | 120,000 |                       | 24 | 93,000  |
|                       | 13 | 122,000 |                       | 25 | 94,000  |
|                       | 14 | 123,000 |                       | 26 | 100,000 |
|                       | 15 | 116,000 |                       | 27 | 96,000  |
|                       | 16 | 120,000 |                       | 28 | 96,000  |

TABLE A-1. RAW WASTEWATER FLOW (continued)  
1.0 MOD \* 53.81 l/sec

| FLOW<br>(gallons/day) |    |         | FLOW<br>(gallons/day) |  |  |
|-----------------------|----|---------|-----------------------|--|--|
| July                  | 29 | 92,000  |                       |  |  |
|                       | 30 | 92,000  |                       |  |  |
|                       | 31 | 106,000 |                       |  |  |
| August                | 1  | 112,000 |                       |  |  |
|                       | 2  | 105,000 |                       |  |  |
|                       | 3  | 99,000  |                       |  |  |
|                       | 4  | 108,000 |                       |  |  |
|                       | 5  | 104,000 |                       |  |  |
|                       | 6  | 102,000 |                       |  |  |
|                       | 7  | 102,000 |                       |  |  |
|                       | 8  | 108,000 |                       |  |  |
|                       | 9  | 106,000 |                       |  |  |
|                       | 10 | 104,000 |                       |  |  |
|                       | 11 | 114,000 |                       |  |  |
|                       | 12 | 112,000 |                       |  |  |
|                       | 13 | 111,000 |                       |  |  |
|                       | 14 | 116,000 |                       |  |  |
|                       | 15 | 114,000 |                       |  |  |
|                       | 16 | 116,000 |                       |  |  |
|                       | 17 | 110,000 |                       |  |  |
|                       | 18 | 112,000 |                       |  |  |
|                       | 19 | 112,000 |                       |  |  |
|                       | 20 | 112,000 |                       |  |  |
|                       | 21 | 111,000 |                       |  |  |
|                       | 22 | 114,000 |                       |  |  |
|                       | 23 | 117,000 |                       |  |  |
|                       | 24 | 108,000 |                       |  |  |
|                       | 25 | 111,000 |                       |  |  |
|                       | 26 | 105,000 |                       |  |  |
|                       | 27 | 111,000 |                       |  |  |
|                       | 28 | 116,000 |                       |  |  |
|                       | 29 | 116,000 |                       |  |  |
|                       | 30 | 110,000 |                       |  |  |
|                       | 31 | 102,000 |                       |  |  |

TABLE A-2. EFFLUENT FLOW  
(gallons/day)  
(1.0 MGD = 43,811 l/sec)

| FLOW<br>(gallons/day) |    |        |
|-----------------------|----|--------|
| July                  | 8  | 64,000 |
|                       | 9  | 61,000 |
|                       | 10 | 57,000 |
|                       | 11 | 50,000 |
|                       | 12 | 45,000 |
|                       | 13 | 42,000 |
|                       | 14 | 42,000 |
|                       | 15 | 42,000 |
|                       | 16 | 42,000 |
|                       | 17 | 41,000 |
|                       | 18 | 40,000 |
|                       | 19 | 40,000 |
|                       | 20 | 50,000 |
|                       | 21 | 50,000 |
|                       | 22 | 49,000 |
|                       | 23 | 47,000 |
|                       | 24 | 48,000 |
|                       | 25 | 44,000 |
|                       | 30 | 40,000 |
|                       | 31 | 38,000 |
| August                | 1  | 40,000 |
|                       | 2  | 38,000 |
|                       | 3  | 37,000 |
|                       | 4  | 36,000 |
|                       | 5  | 35,000 |
|                       | 6  | 32,000 |
|                       | 7  | 30,000 |
|                       | 8  | 29,000 |
|                       | 9  | 27,000 |
|                       | 10 | 26,000 |
|                       | 11 | 22,000 |
|                       | 12 | 20,000 |
|                       | 23 | 52,000 |
|                       | 24 | 51,000 |
|                       | 25 | 50,000 |
|                       | 26 | 54,000 |
|                       | 27 | 57,000 |
|                       | 28 | 72,000 |
|                       | 29 | 94,000 |
|                       | 30 | 95,000 |
|                       | 31 | 92,000 |



TABLE A-3: pH DATA

| 1974<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         | -   | 9.0  | 9.0   | 8.9  |
| 9/ 6         | 7.4 | 8.0  | 8.4   | 8.4  |
| 9/10         | 7.1 | 8.1  | -     | 8.6  |
| 9/13         | 7.1 | 7.5  | 8.1   | 8.6  |
| 9/16         | 7.9 | 7.9  | 8.5   | 8.8  |
| 9/19         | 7.0 | 8.5  | 9.0   | 9.0  |
| 9/24         | 7.5 | 7.9  | 8.5   | 8.9  |
| 9/26         | 7.3 | 8.2  | 8.6   | 9.1  |
| 10/ 1        | 7.5 | 8.5  | 8.7   | 9.2  |
| 10/ 2        | 7.7 | 8.0  | 8.3   | 8.8  |
| 10/ 3        | 7.7 | 7.9  | 8.2   | 8.8  |
| 10/ 4        | 7.7 | 8.1  | 8.4   | 9.0  |
| 10/ 5        | 7.8 | 7.8  | 8.1   | 8.8  |
| 10/ 6        | 7.5 | 7.3  | 7.7   | 8.5  |
| 10/ 7        | 7.7 | 8.2  | 8.5   | 9.0  |
| 10/ 8        | 7.9 | 8.1  | 8.5   | 9.0  |
| 10/ 9        | 7.8 | 8.3  | 8.6   | 9.0  |
| 10/10        | 7.8 | 8.2  | 8.6   | 9.0  |
| 10/11        | 7.6 | 8.0  | 8.5   | 8.9  |
| 10/12        | 7.7 | 7.3  | 7.7   | 8.3  |
| 10/13        | 7.7 | 7.8  | 8.2   | 8.7  |
| 10/14        | 7.6 | 7.8  | 7.8   | 8.7  |
| 10/15        | 7.5 | 8.2  | 8.8   | 8.7  |
| 10/16        | 7.6 | 7.9  | 8.1   | 8.7  |
| 10/17        | 7.2 | 8.1  | 8.5   | 8.8  |
| 10/18        | 7.6 | 7.9  | 8.5   | 8.9  |
| 10/19        | 7.8 | 8.2  | 8.5   | 8.9  |
| 10/20        | 8.2 | 8.1  | 8.5   | 8.7  |
| 10/21        | 7.6 | 8.2  | 8.5   | 8.8  |
| 10/22        | 7.8 | 8.1  | 8.5   | 8.9  |
| 10/23        | 7.7 | 8.0  | 8.3   | 8.7  |
| 10/24        | 7.7 | 7.7  | 8.0   | 8.6  |
| 10/25        | 7.5 | 7.8  | 8.2   | 8.6  |
| 10/26        | 7.6 | 8.1  | 8.4   | 8.6  |
| 10/27        | 7.9 | 8.0  | 8.3   | 8.7  |
| 10/28        | 7.8 | 7.6  | 8.0   | 8.4  |
| 10/29        | 7.4 | 7.9  | 8.1   | 8.6  |
| 10/30        | 7.3 | 8.0  | 8.1   | 8.6  |
| 11/ 7        | 7.7 | 7.9  | 7.9   | 8.4  |
| 11/ 8        | 7.6 | 8.0  | 8.1   | 8.5  |
| 11/11        | 7.5 | 7.6  | 7.7   | 8.2  |
| 11/13        | 7.5 | 7.8  | 7.8   | 8.3  |

TABLE A-3. pH DATA (continued)

| 1974<br>DATE | BAR | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 11/19        | 7.6 | 7.7  | 8.0   | 8.3  |
| 11/21        | 7.6 | 7.7  | 7.8   | 8.2  |
| 11/23        | 7.6 | 7.9  | 8.0   | 8.4  |
| 11/26        | 7.6 | 7.9  | 8.1   | 8.5  |
| 12/ 4        | 7.6 | 8.1  | 8.3   | 8.6  |
| 12/ 6        | 7.6 | 8.0  | 8.2   | 8.5  |
| 12/ 9        | 7.3 | 7.6  | 8.0   | 8.2  |
| 12/11        | 7.3 | 7.8  | 8.1   | 8.4  |
| 12/17        | 7.8 | 7.8  | 8.3   | 8.5  |
| 12/19        | 7.8 | 7.8  | 8.3   | 8.6  |
| 12/23        | 7.8 | 7.8  | 8.0   | 8.2  |
| 12/27        | 7.8 | 7.6  | 7.9   | 8.3  |
| 1975         |     |      |       |      |
| 1/ 3         | 7.9 | 7.7  | 8.2   | 8.5  |
| 1/ 4         | 7.8 | 7.8  | 8.4   | 8.8  |
| 1/ 5         | 7.8 | 7.8  | 8.4   | 8.8  |
| 1/ 6         | 7.9 | 7.8  | 8.1   | 8.5  |
| 1/ 7         | 7.8 | 7.8  | 8.2   | 9.3  |
| 1/ 8         | 8.1 | 7.7  | 8.1   | 8.8  |
| 1/ 9         | 7.9 | 7.8  | 8.1   | 8.8  |
| 1/10         | 8.0 | 7.8  | 7.8   | 8.6  |
| 1/11         | 7.8 | 7.5  | 7.7   | 8.2  |
| 1/12         | 8.0 | 8.0  | 8.3   | 8.7  |
| 1/13         | 8.0 | 8.0  | 8.2   | 8.7  |
| 1/14         | 8.1 | 7.9  | 8.2   | 8.7  |
| 1/15         | 8.0 | 7.9  | 8.2   | 8.8  |
| 1/16         | 7.9 | 7.8  | 8.1   | 8.9  |
| 1/17         | 8.2 | 8.0  | 8.0   | 8.6  |
| 1/18         | 8.2 | 7.8  | 8.1   | 8.5  |
| 1/19         | 8.0 | 7.8  | 8.2   | 8.7  |
| 1/20         | 7.9 | 7.8  | 8.6   | 8.8  |
| 1/21         | 7.9 | 7.8  | 8.3   | 8.5  |
| 1/22         | 7.8 | 7.8  | 8.3   | 8.9  |
| 1/23         | 7.9 | 7.8  | 8.3   | 9.0  |
| 1/24         | 7.9 | 7.8  | 8.2   | 8.8  |
| 1/25         | 8.1 | 7.7  | 8.0   | 8.7  |
| 1/26         | 8.1 | 7.8  | 8.1   | 8.7  |
| 1/27         | 7.8 | 8.0  | 8.3   | 8.9  |
| 1/28         | 7.9 | 7.9  | 8.2   | 8.9  |
| 1/29         | 7.8 | 7.9  | 8.1   | 8.7  |
| 1/30         | 7.6 | 7.6  | 7.9   | 8.5  |
| 1/31         | 7.7 | 7.8  | 8.1   | 8.7  |
| 2/ 1         | 8.0 | 7.7  | 8.0   | 8.6  |

TABLE A-3. pH DATA (continued)

| <u>1978</u><br><u>DATE</u> | <u>RAH</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|------------|-------------|--------------|-------------|
| 2/ 6                       | 8.0        | 7.9         | 8.2          | 8.7         |
| 2/ 8                       | 8.0        | 7.9         | 8.2          | 8.7         |
| 2/11                       | -          | -           | -            | -           |
| 2/14                       | 7.7        | 7.6         | 8.1          | 8.6         |
| 2/16                       | 8.1        | 7.9         | 8.6          | 8.7         |
| 2/19                       | 7.7        | 8.0         | 8.6          | 8.9         |
| 2/23                       | 7.8        | 7.9         | 8.5          | 9.0         |
| 2/27                       | 7.9        | 7.8         | 8.5          | 9.2         |
| 3/ 4                       | 8.1        | 8.3         | 8.4          | 8.8         |
| 3/ 7                       | 7.9        | 8.1         | 8.3          | 8.6         |
| 3/13                       | 8.2        | 8.5         | 8.7          | 8.9         |
| 3/15                       | 7.9        | 8.5         | 8.7          | 9.0         |
| 3/18                       | 7.7        | 8.5         | 8.8          | 9.0         |
| 3/20                       | 7.7        | 8.6         | 8.7          | 9.1         |
| 3/26                       | 7.9        | 8.7         | 8.8          | 9.1         |
| 3/28                       | 8.0        | 8.6         | 8.7          | 9.0         |
| 4/ 1                       | 8.0        | 8.6         | 8.6          | 9.1         |
| 4/ 2                       | 8.0        | 8.5         | 8.4          | 9.0         |
| 4/ 3                       | 7.9        | 8.5         | 8.4          | -           |
| 4/ 4                       | 7.6        | 8.4         | 8.4          | 9.1         |
| 4/ 5                       | 8.0        | 8.3         | 8.3          | 9.0         |
| 4/ 6                       | 8.0        | 8.1         | 8.2          | 9.0         |
| 4/ 7                       | 7.9        | 8.0         | 8.2          | 9.0         |
| 4/ 8                       | 7.9        | 8.0         | 8.2          | 9.0         |
| 4/ 9                       | 7.8        | 8.0         | 8.2          | 9.1         |
| 4/10                       | 8.0        | 8.0         | 8.3          | 9.1         |
| 4/11                       | 7.9        | 8.0         | 8.3          | 9.1         |
| 4/12                       | 8.1        | 7.9         | 8.5          | 9.1         |
| 4/13                       | 8.1        | 8.0         | 8.5          | 9.2         |
| 4/14                       | 8.0        | 7.8         | 8.2          | 9.0         |
| 4/15                       | 7.8        | 8.0         | 8.5          | 9.1         |
| 4/16                       | 8.0        | 8.0         | 8.5          | 9.1         |
| 4/17                       | 8.1        | 7.9         | 8.5          | 9.1         |
| 4/18                       | 7.7        | 7.9         | 8.5          | 9.0         |
| 4/19                       | 8.1        | 7.8         | 8.3          | 9.0         |
| 4/20                       | 8.2        | 8.4         | 8.8          | 9.1         |
| 4/21                       | 8.2        | 8.0         | 8.6          | 9.0         |
| 4/22                       | 8.1        | 7.9         | 8.6          | 9.0         |
| 4/23                       | 8.2        | 8.0         | 8.5          | 9.1         |
| 4/24                       | 8.1        | 8.1         | 8.6          | 9.1         |
| 4/25                       | 8.2        | 8.0         | 8.5          | 9.1         |
| 4/26                       | 7.8        | 8.2         | 8.6          | 9.0         |
| 4/27                       | 7.9        | 8.2         | 8.5          | 9.1         |

TABLE A-3. pH DATA (continued)

| 1975<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/28         | 8.1 | 7.8  | 8.1   | 8.7  |
| 4/29         | 8.1 | 8.6  | 8.8   | 9.2  |
| 4/30         | 7.7 | 8.1  | 8.3   | 9.0  |
| 5/ 6         | 8.0 | 7.9  | 8.4   | 9.1  |
| 5/ 9         | 7.7 | 8.1  | 8.7   | 9.0  |
| 5/14         | 7.6 | 7.9  | 8.6   | 9.3  |
| 5/17         | 7.6 | 8.0  | 8.2   | 9.1  |
| 5/21         | 7.8 | 7.9  | 8.2   | 9.0  |
| 5/23         | 8.1 | 8.0  | 8.5   | 8.8  |
| 5/26         | 7.7 | 7.6  | 8.0   | 8.7  |
| 5/29         | 6.9 | 7.6  | 8.1   | 8.7  |
| 6/ 3         | 7.8 | 8.4  | 8.6   | 9.1  |
| 6/ 6         | 7.8 | 8.4  | 8.3   | 9.1  |
| 6/ 8         | 7.6 | 8.5  | 8.6   | 9.1  |
| 6/11         | 7.7 | 8.4  | 8.5   | 8.7  |
| 6/16         | 7.5 | 7.9  | 8.5   | 8.8  |
| 6/20         | 7.8 | 8.5  | 9.0   | 8.8  |
| 6/24         | 7.7 | 9.0  | 9.5   | 8.6  |
| 6/28         | 7.3 | 9.0  | 9.0   | 9.1  |
| 7/ 1         | 7.7 | 9.5  | 9.3   | 9.5  |
| 7/ 2         | 7.7 | 8.8  | 8.5   | 8.9  |
| 7/ 3         | 7.6 | 9.1  | 8.9   | 9.3  |
| 7/ 4         | 7.4 | 8.8  | 8.4   | 9.2  |
| 7/ 5         | 7.6 | 8.2  | 8.7   | 9.3  |
| 7/ 6         | 7.8 | 8.1  | 8.7   | 9.0  |
| 7/ 7         | 7.5 | 8.3  | 8.8   | 9.1  |
| 7/ 8         | 7.7 | 9.3  | 9.6   | 9.5  |
| 7/ 9         | 7.6 | 9.2  | 9.2   | 9.4  |
| 7/10         | 7.5 | 8.1  | 8.5   | 9.2  |
| 7/11         | 7.6 | 7.7  | 8.3   | 8.9  |
| 7/12         | 7.6 | 8.2  | 8.6   | 8.8  |
| 7/13         | 7.5 | 7.5  | 7.7   | 8.8  |
| 7/14         | 7.7 | 7.4  | 8.0   | 8.9  |
| 7/15         | 7.9 | 7.8  | 9.5   | 9.5  |
| 7/16         | 7.9 | 8.3  | 9.1   | 9.0  |
| 7/17         | 7.6 | 8.5  | 9.1   | 9.4  |
| 7/18         | 7.7 | 7.7  | 8.2   | 9.0  |
| 7/19         | 7.9 | 7.8  | 8.0   | 9.0  |
| 7/20         | 7.5 | 8.2  | 8.5   | 8.9  |
| 7/21         | 7.8 | 9.0  | 9.1   | 8.8  |
| 7/22         | 7.8 | 8.7  | 9.0   | 9.1  |
| 7/23         | 7.4 | 8.4  | 8.9   | 9.1  |

TABLE A-3. pH DATA (continued)

| 1975<br>DATE | RAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 7/24         | 7.6 | 8.1  | 8.4   | 8.9  |
| 7/25         | 7.7 | 7.9  | 8.3   | 8.7  |
| 7/26         | 7.7 | 7.6  | 8.3   | 8.4  |
| 7/27         | 7.6 | 8.2  | 8.4   | 8.8  |
| 7/28         | 7.6 | 8.1  | 8.4   | 9.0  |
| 7/29         | 7.7 | 8.1  | 8.5   | 9.0  |
| 7/30         | 7.9 | 8.1  | 8.5   | 8.8  |
| 8/ 5         | 7.7 | 8.2  | 8.6   | 9.0  |
| 8/ 7         | 7.9 | 7.9  | 8.6   | 8.7  |
| 8/11         | 7.5 | 7.9  | 8.6   | 8.9  |
| 8/12         | 7.9 | 8.2  | 8.7   | 9.2  |
| 8/20         | 7.6 | 8.2  | 8.9   | 9.2  |
| 8/22         | 7.5 | 8.7  | 9.3   | 9.5  |
| 8/26         | 7.7 | 7.9  | 8.2   | 9.1  |
| 8/28         | 7.8 | 8.1  | 8.4   | 9.1  |



TABLE A-4. ALKALINITY DATA  
(mg/l as  $\text{CaCO}_3$ )

| 1974<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         | -   | 280  | 250   | 260  |
| 9/ 6         | 450 | 280  | 250   | 230  |
| 9/10         | 310 | 280  | -     | 220  |
| 9/12         | 350 | 270  | 220   | 260  |
| 9/16         | 480 | 280  | 260   | 260  |
| 9/19         | 410 | 260  | 260   | 230  |
| 9/24         | 390 | 290  | 260   | 230  |
| 9/26         | 360 | 300  | 280   | 270  |
| 10/ 1        | 420 | 310  | 290   | 260  |
| 10/ 2        | 380 | 290  | 290   | 250  |
| 10/ 3        | 450 | 320  | 280   | 250  |
| 10/ 4        | 360 | 320  | 290   | 250  |
| 10/ 5        | 360 | 300  | 270   | 260  |
| 10/ 6        | 380 | 300  | 270   | 260  |
| 10/ 7        | 390 | 310  | 280   | 250  |
| 10/ 8        | 380 | 310  | 290   | 250  |
| 10/ 9        | 400 | 330  | 300   | 250  |
| 10/10        | 430 | 320  | 290   | 290  |
| 10/11        | 450 | 310  | 280   | 260  |
| 10/12        | 390 | 310  | 290   | 260  |
| 10/13        | 360 | 320  | 280   | 250  |
| 10/16        | 470 | 310  | 300   | 250  |
| 10/15        | 450 | 330  | 300   | 250  |
| 10/16        | 490 | 320  | 290   | 250  |
| 10/17        | 380 | 310  | 270   | 250  |
| 10/18        | 470 | 310  | 290   | 270  |
| 10/19        | 490 | 310  | 290   | 260  |
| 10/20        | 460 | 320  | 290   | 250  |
| 10/21        | 400 | 290  | 270   | 230  |
| 10/22        | 400 | 320  | 280   | 250  |
| 10/23        | 400 | 310  | 300   | 260  |
| 10/24        | 440 | 320  | 290   | 260  |
| 10/25        | 360 | 330  | 300   | 260  |
| 10/26        | 330 | 330  | 280   | 260  |
| 10/27        | 500 | 320  | 290   | 250  |
| 10/28        | 500 | 320  | 290   | 250  |
| 10/29        | 420 | 310  | 280   | 270  |
| 10/30        | 410 | 310  | 280   | 260  |
| 11/ 7        | 460 | 310  | 260   | 230  |
| 11/ 8        | 430 | 300  | 250   | 230  |
| 11/11        | 430 | 310  | 260   | 230  |

TABLE A-4. ALKALINITY DATA (continued)  
(mg/l as  $\text{CaCO}_3$ )

| 1974  |     |      |       |      |
|-------|-----|------|-------|------|
| DATE  | BAH | EAST | SOUTH | WEST |
| 11/13 | 380 | 310  | 250   | 230  |
| 11/19 | 380 | 310  | 260   | 230  |
| 11/21 | 420 | 330  | 260   | 240  |
| 11/25 | 440 | 340  | 250   | 230  |
| 11/26 | 450 | 330  | 270   | 250  |
| 12/ 4 | 420 | 330  | 290   | 250  |
| 12/ 6 | 410 | 320  | 290   | 240  |
| 12/ 9 | 410 | 340  | 290   | 240  |
| 12/11 | 340 | 330  | 290   | 260  |
| 12/17 | 470 | 340  | 290   | 250  |
| 12/19 | 390 | 350  | 310   | 250  |
| 12/23 | 390 | 350  | 310   | 230  |
| 12/27 | 420 | 350  | 320   | 260  |
| 1975  |     |      |       |      |
| 1/ 3  | 400 | 350  | 290   | 280  |
| 1/ 4  | 410 | 340  | 320   | 280  |
| 1/ 5  | 440 | 350  | 320   | 280  |
| 1/ 6  | 380 | 370  | 330   | 270  |
| 1/ 7  | 390 | 380  | 320   | 270  |
| 1/ 8  | 450 | 350  | 300   | 270  |
| 1/ 9  | 430 | 350  | 320   | 270  |
| 1/10  | 360 | 340  | 320   | 270  |
| 1/11  | 410 | 340  | 320   | 260  |
| 1/12  | 380 | 370  | 350   | 280  |
| 1/13  | 480 | 380  | 320   | 280  |
| 1/14  | 440 | 380  | 350   | 270  |
| 1/15  | 450 | 380  | 340   | 240  |
| 1/16  | 440 | 380  | 330   | 280  |
| 1/17  | 470 | 370  | 340   | 290  |
| 1/18  | 430 | 370  | 320   | 290  |
| 1/19  | 420 | 360  | 320   | 280  |
| 1/20  | 390 | 370  | 350   | 290  |
| 1/21  | 430 | 350  | 320   | 280  |
| 1/22  | 390 | 350  | 330   | 290  |
| 1/23  | 420 | 360  | 330   | 280  |
| 1/24  | 430 | 360  | 340   | 270  |
| 1/25  | 470 | 360  | 330   | 280  |
| 1/26  | 430 | 350  | 330   | 290  |
| 1/27  | 400 | 360  | 330   | 270  |
| 1/28  | 440 | 350  | 330   | 260  |
| 1/29  | 440 | 350  | 330   | 280  |
| 1/30  | 350 | 360  | 310   | 260  |

TABLE A-4. ALKALINITY DATA (continued)  
(mg/l as  $\text{CaCO}_3$ )

| 1975<br>DATE | BAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 1/31         | 350 | 330  | 340   | 270  |
| 2/ 1         | 440 | 350  | 320   | 270  |
| 2/ 6         | 390 | 350  | 340   | 290  |
| 2/ 8         | 440 | 370  | 350   | 290  |
| 2/11         | 430 | 370  | 330   | 290  |
| 2/14         | 450 | 380  | 340   | 300  |
| 2/16         | 470 | 370  | 340   | 290  |
| 2/19         | 410 | 360  | 340   | 290  |
| 2/25         | 390 | 360  | 330   | 260  |
| 2/27         | 390 | 360  | 320   | 270  |
| 3/ 4         | 460 | 350  | 340   | 290  |
| 3/ 7         | 440 | 360  | 330   | 280  |
| 3/13         | 420 | 350  | 330   | 270  |
| 3/15         | 380 | 350  | 330   | 260  |
| 3/18         | 440 | 350  | 200   | 260  |
| 3/20         | 430 | 340  | 310   | 250  |
| 3/26         | 440 | 340  | 300   | 240  |
| 3/28         | 420 | 310  | 300   | 230  |
| 4/ 1         | 380 | 350  | 320   | 230  |
| 4/ 2         | 430 | 340  | 320   | 230  |
| 4/ 3         | 400 | 330  | 310   | 240  |
| 4/ 4         | 390 | 340  | 320   | 230  |
| 4/ 5         | 420 | 320  | 320   | 240  |
| 4/ 6         | 250 | 340  | 320   | 230  |
| 4/ 7         | 420 | 340  | 320   | 250  |
| 4/ 8         | 400 | 350  | 330   | 250  |
| 4/ 9         | 400 | 360  | 320   | 230  |
| 4/10         | 430 | 340  | 330   | 240  |
| 4/11         | 430 | 350  | 330   | 250  |
| 4/12         | 440 | 360  | 320   | 260  |
| 4/13         | 460 | 360  | 320   | 240  |
| 4/14         | 390 | 340  | 300   | 260  |
| 4/15         | 440 | 340  | 320   | 260  |
| 4/16         | 440 | 360  | 320   | 250  |
| 4/17         | 460 | 360  | 330   | 250  |
| 4/18         | 390 | 350  | 320   | 260  |
| 4/19         | 380 | 360  | 320   | 270  |
| 4/20         | 430 | 360  | 330   | 260  |
| 4/21         | 430 | 350  | 320   | 270  |
| 4/22         | 480 | 360  | 320   | 260  |
| 4/23         | 470 | 350  | 320   | 280  |
| 4/24         | 460 | 360  | 320   | 260  |

TABLE A-4. ALKALINITY DATA (continued)  
(mg/l as  $\text{CaCO}_3$ )

| 1975<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/25         | 450 | 340  | 310   | 260  |
| 4/26         | 440 | 340  | 300   | 270  |
| 4/27         | 440 | 350  | 310   | 270  |
| 4/28         | 460 | 350  | 320   | 270  |
| 4/29         | 450 | 360  | 310   | 280  |
| 4/30         | 470 | 360  | 330   | 260  |
| 5/ 6         | 480 | 340  | 320   | 270  |
| 5/ 9         | 420 | 320  | 290   | 240  |
| 5/14         | 490 | 360  | 320   | 230  |
| 5/17         | 360 | 350  | 310   | 200  |
| 5/21         | 350 | 380  | 310   | 220  |
| 5/23         | 470 | 270  | 300   | 220  |
| 5/26         | 300 | 370  | 310   | 220  |
| 5/29         | 340 | 350  | 270   | 220  |
| 6/ 3         | 420 | 330  | 260   | 230  |
| 6/ 6         | 390 | 320  | 250   | 220  |
| 6/ 8         | 390 | 290  | 250   | 210  |
| 6/11         | 420 | 320  | 270   | 210  |
| 6/14         | 460 | 310  | 250   | 230  |
| 6/20         | 480 | 290  | 250   | 220  |
| 6/24         | 440 | 260  | 220   | 230  |
| 6/28         | 450 | 210  | 210   | 190  |
| 7/ 1         | 470 | 190  | 210   | 200  |
| 7/ 2         | 480 | 220  | 210   | 200  |
| 7/ 3         | 440 | 190  | 190   | 180  |
| 7/ 4         | 360 | 170  | 190   | 190  |
| 7/ 5         | 480 | 230  | 190   | 190  |
| 7/ 6         | 440 | 210  | 200   | 190  |
| 7/ 7         | 480 | 220  | 200   | 200  |
| 7/ 8         | 450 | 190  | 200   | 200  |
| 7/ 9         | 470 | 200  | 190   | 200  |
| 7/10         | 490 | 210  | 210   | 200  |
| 7/11         | 510 | 300  | 220   | 210  |
| 7/12         | 420 | 270  | 230   | 230  |
| 7/13         | 480 | 320  | 250   | 220  |
| 7/14         | 500 | 330  | 240   | 230  |
| 7/15         | 490 | 300  | 180   | 210  |
| 7/16         | 520 | 270  | 220   | 190  |
| 7/17         | 500 | 220  | 210   | 210  |
| 7/18         | 520 | 300  | 250   | 220  |
| 7/19         | 540 | 310  | 250   | 230  |

TABLE A-6: ALKALINITY DATA (continued)  
(mg/l as  $\text{CaCO}_3$ )

| 1975<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 7/20         | 380 | 310  | 250   | 200  |
| 7/21         | 520 | 180  | 230   | 210  |
| 7/22         | 520 | 270  | 230   | 220  |
| 7/23         | 490 | 270  | 170   | 230  |
| 7/24         | 510 | 290  | 230   | 210  |
| 7/25         | 560 | 300  | 240   | 210  |
| 7/26         | 530 | 300  | 230   | 210  |
| 7/27         | 460 | 290  | 210   | 210  |
| 7/28         | 520 | 270  | 210   | 190  |
| 7/29         | 550 | 240  | 200   | 190  |
| 7/30         | 540 | 240  | 200   | 190  |
| 8/ 5         | 440 | 250  | 220   | 200  |
| 8/ 7         | 480 | 130  | 230   | 210  |
| 8/11         | 560 | 300  | 240   | 210  |
| 8/12         | 520 | 320  | 230   | 220  |
| 8/20         | 540 | 320  | 250   | 200  |
| 8/22         | 470 | 330  | 250   | 200  |
| 8/26         | 540 | 150  | 290   | 210  |
| 8/28         | 510 | 140  | 280   | 210  |



TABLE A-5: TEMPERATURE

°C

| 1974<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         | -   | 25   | 26    | 26   |
| 9/ 6         | -   | 19   | 18    | 18   |
| 9/10         | 24  | 26   | 26    | 24   |
| 9/12         | 24  | 23   | 24    | 23   |
| 9/16         | 22  | 20   | 20    | 20   |
| 9/19         | 23  | 23   | 24    | 23   |
| 9/24         | 22  | 19   | 19    | 19   |
| 9/26         | 22  | 20   | 21    | 19   |
| 10/ 1        | 23  | 23   | 20    | 20   |
| 10/ 2        | 18  | 16   | 16    | 15   |
| 10/ 3        |     | 16   | 16    | 17   |
| 10/ 4        | 20  | 17   | 18    | 17   |
| 10/ 5        | 30  | 16   | 16    | 16   |
| 10/ 6        | 20  | 16   | 16    | 16   |
| 10/ 7        | 19  | 16   | 16    | 16   |
| 10/ 8        | 19  | 16   | 17    | 15   |
| 10/ 9        | 19  | 18   | 17    | 17   |
| 10/10        | 20  | 18   | 19    | 17   |
| 10/11        | 20  | 18   | 18    | 18   |
| 10/12        | 20  | 17   | 18    | 17   |
| 10/13        | 19  | 17   | 17    | 16   |
| 10/14        | 19  | 15   | 15    | 15   |
| 10/15        | 19  | 15   | 18    | 16   |
| 10/16        | 20  | 15   | 14    | 15   |
| 10/17        | 19  | 18   | 17    | 17   |
| 10/18        | 21  | 17   | 16    | 16   |
| 10/19        | 20  | 16   | 15    | 15   |
| 10/20        | 19  | 16   | 15    | 15   |
| 10/21        | 19  | 15   | 16    | 16   |
| 10/22        | 19  | 15   | 16    | 15   |
| 10/23        | 18  | 15   | 16    | 15   |
| 10/24        | 18  | 15   | 15    | 15   |
| 10/25        | 18  | 16   | 16    | 16   |
| 10/26        | 18  | 18   | 16    | 16   |
| 10/27        | 20  | 17   | 17    | 17   |
| 10/28        | 18  | 16   | 16    | 16   |
| 10/29        | 19  | 17   | 17    | 17   |
| 10/30        | 20  | 18   | 19    | 18   |
| 11/ 7        | 19  | 10   | 10    | 10   |
| 11/ 8        | 19  | 10   | 11    | 10   |
| 11/11        | 18  | 11   | 12    | 11   |
| 11/13        | 18  | 9    | 10    | 9    |

TABLE A-5. TEMPERATURE (continued)  
°C

| 1974<br>DATE | RAV | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 11/19        | 16  | 10   | 10    | 10   |
| 11/21        | 16  | 10   | 10    | 10   |
| 11/25        | 17  | 9.0  | 9.0   | 9.0  |
| 11/26        | 16  | 7.0  | 7.0   | 7.0  |
| 12/ 4        | 19  | 6.0  | 6.0   | 6.0  |
| 12/ 6        | 19  | 6.0  | 7.0   | 6.0  |
| 12/ 9        | 16  | 5.0  | 4.0   | 3.0  |
| 12/11        | 14  | 4.0  | 5.0   | 4.0  |
| 12/17        | 15  | 3.0  | 4.0   | 3.0  |
| 12/19        | 14  | 3.0  | 3.0   | 3.0  |
| 12/23        | 14  | 4.0  | 4.0   | 4.0  |
| 12/27        | 12  | 2.5  | 3.5   | 3.5  |
| 1975         |     |      |       |      |
| 1/ 3         | 13  | 3.0  | 4.0   | 4.0  |
| 1/ 4         | 13  | 4.0  | 5.0   | 4.0  |
| 1/ 5         | 13  | 4.0  | 3.0   | 5.0  |
| 1/ 6         | 12  | 4.0  | 6.0   | 5.0  |
| 1/ 7         | 13  | 5.0  | 5.0   | 5.0  |
| 1/ 8         | 12  | 4.0  | 4.0   | 3.0  |
| 1/ 9         | 11  | 6.0  | 6.0   | 5.0  |
| 1/10         | 12  | 5.0  | 5.0   | 5.0  |
| 1/11         | 12  | 3.0  | 3.0   | 3.0  |
| 1/12         | 10  | 1.0  | 2.0   | 0.0  |
| 1/13         | 12  | 2.0  | 3.0   | 3.0  |
| 1/14         | 11  | 0.0  | 3.0   | 2.0  |
| 1/15         | 11  | 3.0  | 5.0   | 4.0  |
| 1/16         | 11  | 5.0  | 4.0   | 3.0  |
| 1/17         | 12  | 4.0  | 3.0   | 4.0  |
| 1/18         | 11  | 5.0  | 3.0   | 4.0  |
| 1/19         | 11  | 4.0  | 4.0   | 4.0  |
| 1/20         | 11  | 6.0  | 3.0   | 5.0  |
| 1/21         | 11  | 5.0  | 3.0   | 5.0  |
| 1/22         | 11  | 3.0  | 4.0   | 4.0  |
| 1/23         | 13  | 5.0  | 6.0   | 5.0  |
| 1/24         | 10  | 5.0  | 5.0   | 5.0  |
| 1/25         | 13  | 5.0  | 4.0   | 5.0  |
| 1/26         | 11  | 5.0  | 4.0   | 5.0  |
| 1/27         | 12  | 5.0  | 5.0   | 5.0  |
| 1/28         | 11  | 5.0  | 4.0   | 4.0  |
| 1/29         | 12  | 5.0  | 5.0   | 4.0  |
| 1/30         | 11  | 4.0  | 4.0   | 4.0  |

TABLE A-5. TEMPERATURE (continued)  
OF

| 1975<br>DATE | RAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 1/31         | 11  | 4.0  | 4.0   | 4.0  |
| 2/ 1         | 11  | 3.0  | 3.0   | 3.0  |
| 2/ 6         | 9.0 | 0.0  | 0.0   | 0.0  |
| 2/ 8         | 12  | 1.0  | 1.0   | 1.0  |
| 2/11         | 11  | 4.0  | 2.0   | 3.0  |
| 2/14         | 11  | 3.0  | 4.0   | 3.0  |
| 2/16         | 12  | 2.0  | 2.0   | 3.0  |
| 2/19         | 12  | 5.0  | 5.0   | 4.0  |
| 2/24         | 13  | 4.0  | 6.0   | 5.0  |
| 2/27         | 13  | 4.0  | 6.0   | 6.0  |
| 3/ 4         | 13  | 6.0  | 6.0   | 6.0  |
| 3/ 7         | 8.0 | 7.0  | 6.0   | 6.0  |
| 3/13         | 10  | 4.0  | 3.0   | 2.0  |
| 3/15         | 10  | 5.0  | 5.0   | 5.0  |
| 3/18         | 13  | 9.0  | 8.0   | 8.0  |
| 3/20         | 15  | 13   | 13    | 13   |
| 3/26         | 12  | 7.0  | 8.0   | 7.0  |
| 3/28         | 12  | 7.0  | 7.0   | 9.0  |
| 4/ 1         | 13  | 8.0  | 9.0   | 8.0  |
| 4/ 2         | 11  | 6.0  | 6.0   | 6.0  |
| 4/ 3         | 9.5 | 7.0  | 6.0   | 6.0  |
| 4/ 4         | 13  | 10   | 10    | 10   |
| 4/ 5         | 14  | 10   | 10    | 10   |
| 4/ 6         | 13  | 10   | 10    | 10   |
| 4/ 7         | 13  | 10   | 10    | 10   |
| 4/ 8         | 13  | 10   | 10    | 9.5  |
| 4/ 9         | 14  | 11   | 11    | 11   |
| 4/10         | 14  | 11   | 11    | 11   |
| 4/11         | 13  | 11   | 11    | 12   |
| 4/12         | -   | -    | -     | -    |
| 4/13         | 12  | 11   | 11    | 11   |
| 4/14         | 11  | 9.0  | 10    | 10   |
| 4/15         | 13  | 13   | 12    | 12   |
| 4/16         | 12  | 12   | 12    | 12   |
| 4/17         | 13  | 15   | 15    | 14   |
| 4/18         | 13  | 16   | 16    | 16   |
| 4/19         | 12  | 14   | 14    | 14   |
| 4/20         | 13  | 15   | 15    | 14   |
| 4/21         | 13  | 15   | 15    | 15   |
| 4/22         | 14  | 16   | 16    | 15   |
| 4/23         | 16  | 18   | 18    | 18   |

TABLE A-5. TEMPERATURE (continued)  
°C

| 1975<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/24         | 15  | 18   | 18    | 18   |
| 4/25         | 15  | 18   | 18    | 18   |
| 4/26         | 18  | 20   | 20    | 20   |
| 4/27         | 16  | 22   | 21    | 21   |
| 4/28         | 15  | 18   | 19    | 19   |
| 4/29         | 15  | 19   | 19    | 18   |
| 4/30         | 15  | 19   | 19    | 18   |
| 5/ 6         | 16  | 22   | 21    | 21   |
| 5/ 9         | 18  | 23   | 23    | 23   |
| 5/14         | 16  | 22   | 22    | 21   |
| 5/17         | 16  | 19   | 18    | 19   |
| 5/21         | 17  | 20   | 20    | 20   |
| 5/23         | 20  | 20   | 21    | 22   |
| 5/26         | 17  | 21   | 19    | 22   |
| 5/29         | 16  | 20   | 21    | 22   |
| 6/ 3         | 17  | 21   | 20    | 21   |
| 6/ 6         | 17  | 21   | 22    | 23   |
| 6/ 8         | 18  | 22   | 23    | 24   |
| 6/11         | 20  | 22   | 22    | 21   |
| 6/16         | 20  | 22   | 22    | 23   |
| 6/20         | 19  | 26   | 27    | 26   |
| 6/24         | 21  | 27   | 27    | 26   |
| 6/28         | 20  | 27   | 28    | 26   |
| 7/ 1         | 18  | 25   | 27    | 26   |
| 7/ 2         | 19  | 26   | 23    | 24   |
| 7/ 3         | 19  | 24   | 26    | 25   |
| 7/ 4         | 19  | 22   | 23    | 25   |
| 7/ 5         | 17  | 23   | 24    | 25   |
| 7/ 6         | 22  | 27   | 30    | 28   |
| 7/ 7         | 20  | 25   | 25    | 26   |
| 7/ 8         | 23  | 29   | 30    | 29   |
| 7/ 9         | 24  | 28   | 32    | 32   |
| 7/10         | 24  | 31   | 29    | 32   |
| 7/11         | 23  | 29   | 27    | 29   |
| 7/12         | 22  | 25   | 24    | 26   |
| 7/13         | 24  | 28   | 26    | 26   |
| 7/14         | 23  | 27   | 27    | 27   |
| 7/15         | 25  | 27   | 28    | 27   |
| 7/16         | 23  | 25   | 27    | 26   |
| 7/17         | 22  | 26   | 29    | 28   |
| 7/18         | 24  | 26   | 29    | 26   |
| 7/19         | 22  | 28   | 27    | 26   |

TABLE A-5. TEMPERATURE (continued)  
°C

| 1975<br>DATE | RAIN | EAST | SOUTH | WEST |
|--------------|------|------|-------|------|
| 7/20         | 20   | 25   | 25    | 25   |
| 7/21         | 23   | 27   | 28    | 26   |
| 7/22         | 21   | 23   | 25    | 25   |
| 7/23         | 22   | 27   | 28    | 29   |
| 7/24         | 24   | 27   | 28    | 27   |
| 7/25         | 22   | 27   | 27    | 26   |
| 7/26         | 24   | 25   | 27    | 27   |
| 7/27         | 24   | 26   | 27    | 27   |
| 7/28         | 23   | 27   | 26    | 30   |
| 7/29         | 23   | 30   | 30    | 30   |
| 7/30         | 22   | 25   | 28    | 27   |
| 7/31         | 22   | 27   | 28    | 27   |
| 8/ 5         | 24   | 28   | 29    | 29   |
| 8/ 7         | 24   | 27   | 28    | 28   |
| 8/11         | 23   | 25   | 25    | 25   |
| 8/12         | 24   | 24   | 24    | 25   |
| 8/20         | 23   | 25   | 25    | 24   |
| 8/21         | 26   | 29   | 29    | 28   |
| 8/26         | 22   | 20   | 21    | 22   |
| 8/28         | 22   | 21   | 23    | 23   |

TABLE A-6 DISSOLVED OXYGEN  
(mg/l)

| 1974<br>DATE | BAR | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         |     | >20  | >19   | >19  |
| 9/ 6         |     | 7.3  | 14.   | 10.  |
| 9/10         |     | 7.8  | 21.   | 16.  |
| 9/12         |     | 0.9  | 2.9   | 9.4  |
| 9/16         |     | 0.6  | 3.4   | 3.9  |
| 9/19         |     | 20.  | 29.   | 26.  |
| 9/24         |     | 2.3  | 4.0   | 8.1  |
| 9/25         |     | 6.3  | 16.   | 16.  |
| 10/ 1        |     | 22.  | 21.   | 24.  |
| 10/ 2        |     | 3.6  | 6.2   | 9.6  |
| 10/ 3        |     | 2.3  | 4.9   | 8.8  |
| 10/ 4        |     | 6.6  | 6.7   | 11.  |
| 10/ 5        |     | 1.3  | 4.9   | 6.6  |
| 10/ 6        |     | 0.7  | 2.6   | 6.3  |
| 10/ 7        |     | 4.7  | 10.   | 10.  |
| 10/ 8        |     | 2.4  | 11.   | 16.  |
| 10/ 9        |     | 8.2  | 13.   | 13.  |
| 10/10        |     | 5.5  | 14.   | 14.  |
| 10/11        |     | 1.1  | 11.   | 9.8  |
| 10/12        |     | 0.4  | 4.1   | 7.6  |
| 10/13        |     | 0.4  | 4.9   | 6.4  |
| 10/14        |     | 1.8  | 3.1   | 6.9  |
| 10/15        |     | 5.4  | 19.   | 14.  |
| 10/16        |     | 2.6  | 7.3   | 7.3  |
| 10/17        |     | 6.9  | 12.   | 11.  |
| 10/18        |     | 2.3  | 8.8   | 11.  |
| 10/19        |     | 4.4  | 11.   | 9.2  |
| 10/20        |     | 3.7  | 8.2   | 9.5  |
| 10/21        |     | 5.3  | 7.9   | 9.6  |
| 10/22        |     | 5.5  | 9.7   | 11.  |
| 10/23        |     | 1.9  | 6.8   | 9.1  |
| 10/24        |     | 0.5  | 4.0   | 6.3  |
| 10/25        |     | 0.4  | 5.4   | 5.7  |
| 10/26        |     | 7.7  | 6.5   | 11.  |
| 10/27        |     | 0.2  | 4.8   | 9.9  |
| 10/28        |     | 1.5  | 4.1   | 6.6  |
| 10/29        |     | 1.4  | 3.4   | 5.8  |
| 10/30        |     | 2.8  | 5.6   | 7.8  |
| 11/ 7        |     | 4.6  | 6.2   | 9.6  |
| 11/ 8        |     | 5.0  | 6.3   | 9.6  |
| 11/11        |     | 3.4  | 4.4   | 8.7  |
| 11/13        |     | 4.8  | 6.0   | 9.3  |



TABLE A-6 DISSOLVED OXYGEN (continued)  
(mg/l)

| 1974<br>DATE | RAH | EAST | BOUCH | WEST |
|--------------|-----|------|-------|------|
| 11/19        |     | 3.9  | 6.9   | 10.  |
| 11/21        |     | 7.6  | 11.   | 12.  |
| 11/25        |     | 7.4  | 10    | 9.8  |
| 11/26        |     | 8.2  | 9.2   | 10.  |
| 12/ 4        |     | 9.8  | 16.   | 15.  |
| 12/ 6        |     | 9.4  | 16.   | 15.  |
| 12/ 9        |     | 7.4  | 13.   | 13.  |
| 12/11        |     | 8.2  | 13.   | 13.  |
| 12/17        |     | 7.2  | 16.   | 16.  |
| 12/19        |     | 6.3  | 16.   | 16.  |
| 12/23        |     | 6.1  | 16.   | 16.  |
| 12/27        |     | 1.6  | 15.   | 15.  |
| <u>1975</u>  |     |      |       |      |
| 1/ 3         |     | 1.8  | 13.   | 6.0  |
| 1/ 4         |     | 4.1  | 16.   | 16.  |
| 1/ 5         |     | 3.2  | 13.   | 19.  |
| 1/ 6         |     | 2.6  | 19.   | >20  |
| 1/ 7         |     | 3.1  | 19.   | >20  |
| 1/ 8         |     | 2.6  | 17.   | >20  |
| 1/ 9         |     | 2.4  | 15.   | >20  |
| 1/10         |     | 0.6  | 4.0   | 19.  |
| 1/11         |     | 4.7  | 8.7   | >20  |
| 1/12         |     | 7.3  | 10.   | >20  |
| 1/13         |     | 5.7  | 11.   | 20.  |
| 1/14         |     | 5.0  | 12.   | 20.  |
| 1/15         |     | 5.1  | 13.   | 20.  |
| 1/16         |     | 6.2  | 16.   | 20.  |
| 1/17         |     | 7.2  | 9.6   | >20  |
| 1/18         |     | 3.4  | 6.6   | >20  |
| 1/19         |     | 1.7  | 14    | >20  |
| 1/20         |     | 5.3  | >20   | >20  |
| 1/21         |     | 2.9  | >20   | >20  |
| 1/22         |     | 6.2  | 20    | >20  |
| 1/23         |     | 3.9  | >20   | >20  |
| 1/24         |     | 4.3  | 16.   | >20  |
| 1/27         |     | 3.2  | 13.   | >20  |
| 1/26         |     | 4.2  | 13.   | 20.  |
| 1/27         |     | 9.2  | 15.   | 19.  |
| 1/28         |     | 3.5  | 16.   | 19.  |
| 1/29         |     | 8.7  | 15.   | 18.  |
| 1/30         |     | 7.3  | 12.   | 16.  |

TABLE A-6 DISSOLVED OXYGEN (continued)  
(mg/l)

| 1975<br>DATE | BAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 1/31         |     | 6.3  | 11.   | 13.  |
| 2/ 1         |     | 4.3  | 11.   | 13.  |
| 2/ 6         |     | 5.9  | 8.6   | 12.  |
| 2/ 8         |     | 6.7  | 16.   | 18.  |
| 2/11         |     | 5.3  | 18.   | >20  |
| 2/14         |     | 2.9  | 15.   | >20  |
| 2/16         |     | 1.5  | 18.   | >20  |
| 2/19         |     | 7.1  | >20   | >20  |
| 2/24         |     | 5.4  | >20   | >20  |
| 2/27         |     | 7.0  | >20   | >20  |
| 3/ 6         |     | 13.  | 17.   | 18.  |
| 3/ 7         |     | 12.  | 13.   | 13.  |
| 3/13         |     | 12.  | 15.   | 17.  |
| 3/15         |     | 14.  | 16.   | 20.  |
| 3/18         |     | 20.  | >20   | >20  |
| 3/20         |     | >20  | >20   | >20  |
| 3/26         |     | 15.  | 13.   | 16.  |
| 3/28         |     | 10.  | 7.4   | 11.  |
| 4/ 1         |     | 11.  | 8.3   | 13.  |
| 4/ 2         |     | 7.0  | 5.0   | 11.  |
| 4/ 3         |     | 6.7  | 6.3   | 11.  |
| 4/ 4         |     | 6.0  | 6.5   | 16.  |
| 4/ 5         |     | 3.0  | 0.6   | 13.  |
| 4/ 6         |     | 1.2  | 4.7   | 12.  |
| 4/ 7         |     | 0.4  | 4.3   | 9.4  |
| 4/ 8         |     | 1.4  | 5.6   | 11.  |
| 4/ 9         |     | 0.7  | 5.9   | 12.  |
| 4/10         |     | 6.4  | 12.   | 0.8  |
| 4/11         |     | 7.8  | 13.   | 1.3  |
| 4/12         |     | -    | -     | -    |
| 4/13         |     | 13.  | 14.   | 0.5  |
| 4/14         |     | 9.7  | 8.3   | 0.6  |
| 4/15         |     | 13.  | 13.   | 5.8  |
| 4/16         |     | 13.  | 13.   | 2.9  |
| 4/17         |     | 16.  | 12.   | 1.1  |
| 4/18         |     | 9.9  | 8.9   | 2.1  |
| 4/19         |     | 5.2  | 5.7   | 0.7  |
| 4/20         |     | 12.  | 12.   | 2.5  |
| 4/21         |     | 11.  | 9.5   | 5.4  |
| 4/22         |     | 15.  | 11.   | 7.3  |
| 4/23         |     | 5.7  | 2.1   | 7.0  |

TABLE A-6 DISSOLVED OXYGEN (continued)  
(mg/l)

| 1973<br>DATE | NAN | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/24         |     | 8.0  | 7.6   | 2.3  |
| 4/25         |     | 6.5  | 6.0   | 1.3  |
| 4/26         |     | 7.5  | 6.8   | 7.5  |
| 4/27         |     | 2.2  | 6.1   | 0.7  |
| 4/28         |     | 1.0  | 4.2   | 0.7  |
| 4/29         |     | 6.2  | 6.3   | 1.9  |
| 4/30         |     | 1.7  | 10.   | 4.3  |
| 5/ 6         |     | 11.  | 11.   | 6.1  |
| 5/ 9         |     | 14.  | 14.   | 7.1  |
| 5/14         |     | 0.3  | 0.4   | 0.7  |
| 5/17         |     | 3.4  | 5.5   | 12.  |
| 5/21         |     | 1.0  | 1.0   | 1.7  |
| 5/23         |     | 0.4  | 2.8   | 1.8  |
| 5/26         |     | 0.3  | 0.5   | 2.9  |
| 5/29         |     | 1.7  | 4.2   | 3.2  |
| 6/ 3         |     | 5.1  | 7.4   | 0.7  |
| 6/ 6         |     | 4.4  | 2.0   | 3.3  |
| 6/ 8         |     | 3.8  | 4.0   | 4.3  |
| 6/11         |     | 2.9  | 1.6   | 1.7  |
| 6/16         |     | 2.0  | 5.3   | 4.1  |
| 6/20         |     | 4.7  | 8.3   | 6.0  |
| 6/24         |     | 12.  | 2.5   | 0.6  |
| 6/28         |     | 10.  | 1.4   | 13.  |
| 7/ 1         |     | 1.4  | 2.7   | 5.2  |
| 7/ 2         |     | 0.3  | 0.1   | 0.3  |
| 7/ 3         |     | 1.2  | 0.2   | 2.1  |
| 7/ 4         |     | 0.2  | 0.3   | 7.3  |
| 7/ 5         |     | 0.4  | 1.6   | 4.6  |
| 7/ 6         |     | 1.1  | 1.0   | 0.6  |
| 7/ 7         |     | 0.8  | 0.3   | 2.1  |
| 7/ 8         |     | 2.3  | 3.2   | 11.  |
| 7/ 9         |     | 3.3  | 2.6   | 6.3  |
| 7/10         |     | 2.3  | 0.9   | 4.7  |
| 7/11         |     | 1.7  | 1.7   | 2.9  |
| 7/12         |     | 1.3  | 1.0   | 2.3  |
| 7/13         |     | 0.6  | 5.3   | 12.  |
| 7/14         |     | 0.9  | 2.1   | 8.8  |
| 7/15         |     | 1.2  | 7.1   | 9.8  |
| 7/16         |     | 0.3  | 6.9   | 9.7  |
| 7/17         |     | 0.3  | 5.7   | 11.  |
| 7/18         |     | 1.4  | 4.9   | 11.  |

TABLE A-6 DISSOLVED OXYGEN (continued)  
(mg/l)

| 1975<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 7/19         |     | 1.6  | 4.7   | 3.7  |
| 7/20         |     | 3.8  | 1.8   | 1.2  |
| 7/21         |     | 8.7  | 7.6   | 0.7  |
| 7/22         |     | 4.1  | 4.0   | 3.6  |
| 7/23         |     | 2.7  | 6.4   | 10.  |
| 7/24         |     | 2.3  | 4.2   | 6.1  |
| 7/25         |     | 4.2  | 7.4   | 4.8  |
| 7/26         |     | 0.5  | 8.3   | 3.0  |
| 7/27         |     | 0.8  | 2.4   | 5.3  |
| 7/28         |     | 0.6  | 0.9   | 7.0  |
| 7/29         |     | 1.4  | 5.5   | 5.8  |
| 7/30         |     | 2.5  | 5.0   | 3.9  |
| 7/31         |     | 2.4  | 3.9   | 3.2  |
| 8/ 5         |     | 8.4  | 5.6   | 17.  |
| 8/ 7         |     | 5.0  | 7.3   | 7.8  |
| 8/11         |     | 1.3  | 4.4   | 4.7  |
| 8/12         |     | 1.5  | 5.3   | 6.1  |
| 8/20         |     | 1.5  | 3.9   | 0.3  |
| 8/22         |     | 7.0  | 12.   | 8.8  |
| 8/26         |     | 0.7  | 0.6   | 0.3  |
| 8/28         |     | 0.9  | 2.8   | 3.0  |

TABLE A-7. TOTAL BOD<sub>5</sub>  
(mg/l)

| 1974<br>DATE | RAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         | -   | 22   | 28    | 20   |
| 9/ 6         | 440 | 31   | 33    | 20   |
| 9/10         | -   | -    | -     | -    |
| 9/12         | 240 | 32   | 16    | 21   |
| 9/16         | 300 | 46   | 33    | 19   |
| 9/19         | 400 | 54   | 50    | 20   |
| 9/24         | 340 | 53   | 31    | 16   |
| 9/26         | 270 | 52   | 29    | 12   |
| 10/ 1        | 360 | 42   | 36    | 18   |
| 10/ 2        | 207 | 45   | 31    | 16   |
| 10/ 3        | 410 | 49   | 30    | 18   |
| 10/ 4        | 240 | 44   | 27    | 14   |
| 10/ 5        | 220 | 31   | 21    | 13   |
| 10/ 6        | 230 | 45   | 25    | 14   |
| 10/ 7        | 310 | 54   | 30    | 23   |
| 10/ 8        | 170 | 43   | 30    | 17   |
| 10/ 9        | 200 | 84   | 28    | 14   |
| 10/10        | 210 | 41   | 27    | 15   |
| 10/11        | 260 | 42   | 28    | 16   |
| 10/12        | 140 | 21   | 18    | 11   |
| 10/13        | 160 | 40   | 22    | 14   |
| 10/14        | 360 | 45   | 25    | 18   |
| 10/15        | 270 | 40   | 24    | 13   |
| 10/16        | 250 | 33   | 24    | 16   |
| 10/17        | 440 | 38   | 27    | 15   |
| 10/18        | 320 | 49   | 28    | 18   |
| 10/19        | 320 | 68   | 15    | 23   |
| 10/20        | 260 | 31   | 30    | 18   |
| 10/21        | 380 | 51   | 32    | 14   |
| 10/22        | 190 | 48   | 34    | 18   |
| 10/23        | 290 | 61   | 44    | 30   |
| 10/24        | 180 | 52   | 28    | 18   |
| 10/25        | 64  | 59   | 33    | 25   |
| 10/26        | 120 | 64   | 33    | 31   |
| 10/27        | 290 | 60   | 33    | 19   |
| 10/28        | 260 | 45   | 35    | 19   |
| 10/29        | 330 | 70   | 35    | 17   |
| 10/30        | 300 | 62   | 41    | 20   |
| 11/ 7        | 360 | 36   | 30    | 16   |
| 11/ 8        | 190 | 34   | 29    | 16   |

TABLE A-7. TOTAL BOD<sub>5</sub> (continued)  
(mg/l)

| 1974<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 11/11        | 420 | 43   | 36    | 18   |
| 11/13        | 170 | 39   | 24    | 16   |
| 11/19        | 230 | 54   | 28    | 18   |
| 11/21        | 420 | 31   | 29    | 23   |
| 11/25        | -   | 41   | 33    | 23   |
| 11/26        | 330 | 53   | 41    | 23   |
| 12/ 4        | 340 | 36   | 18    | 16   |
| 12/ 6        | 630 | 43   | 24    | 10   |
| 12/ 9        | 480 | 45   | 28    | 19   |
| 12/11        | 530 | 92   | 58    | 25   |
| 12/17        | 350 | 44   | 24    | 15   |
| 12/19        | 410 | 76   | 36    | 11   |
| 12/23        | 250 | 52   | 29    | 16   |
| 12/27        | 310 | 39   | 21    | 11   |
| 1975         |     |      |       |      |
| 1/ 3         | 300 | 47   | 12    | 15   |
| 1/ 4         | 270 | 45   | 26    | 12   |
| 1/ 5         | 310 | 54   | 30    | 9    |
| 1/ 6         | 260 | 73   | 26    | 12   |
| 1/ 7         | 230 | 56   | 28    | 12   |
| 1/ 8         | 210 | 45   | 26    | 16   |
| 1/ 9         | 340 | 56   | 37    | 31   |
| 1/10         | 400 | 96   | 69    | 18   |
| 1/11         | 210 | 46   | 44    | 21   |
| 1/12         | 140 | 45   | 28    | 13   |
| 1/13         | 380 | 53   | 34    | 27   |
| 1/14         | 200 | 48   | 34    | 23   |
| 1/15         | 250 | 58   | 38    | 26   |
| 1/16         | 300 | 71   | 50    | 38   |
| 1/17         | 520 | 86   | 85    | 41   |
| 1/18         | 460 | 82   | 73    | 34   |
| 1/19         | 310 | 76   | 62    | 32   |
| 1/20         | 300 | 49   | 44    | 26   |
| 1/21         | 250 | 53   | 41    | 21   |
| 1/22         | 200 | 52   | 44    | 30   |
| 1/23         | 300 | 40   | 44    | 38   |
| 1/24         | 430 | 52   | 35    | 22   |
| 1/25         | 340 | 51   | 35    | 27   |
| 1/26         | 340 | 58   | 50    | 28   |
| 1/27         | 320 | 35   | 22    | 0.4  |



TABLE A-7. TOTAL BOD<sub>5</sub> (continued)  
(mg/l)

| 1975<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 1/28         | 290 | 55   | 64    | 32   |
| 1/29         | 430 | 63   | 69    | 31   |
| 1/30         | 280 | 42   | 33    | 25   |
| 1/31         | 290 | 47   | 27    | 18   |
| 2/ 1         | 370 | 15   | 4     | 8    |
| 2/ 6         | 170 | 27   | 19    | 5    |
| 2/ 8         | 330 | 80   | 64    | 40   |
| 2/11         | 210 | 27   | 10    | 21   |
| 2/14         | 580 | 38   | 25    | 19   |
| 2/16         | 280 | 33   | 21    | 23   |
| 2/19         | 180 | 23   | 8     | 13   |
| 2/24         | 260 | 37   | 13    | 13   |
| 2/27         | 350 | 39   | 15    | 20   |
| 3/ 4         | 660 | 33   | 28    | 23   |
| 3/ 7         | 360 | 49   | 35    | 37   |
| 3/13         | 220 | 41   | 33    | 27   |
| 3/15         | 210 | 47   | 43    | 42   |
| 3/18         | 360 | 44   | 38    | 38   |
| 3/21         | 430 | 85   | 68    | 60   |
| 3/26         | 450 | 55   | 60    | 66   |
| 3/28         | 290 | 36   | 38    | 25   |
| 4/ 1         | 180 | 45   | 35    | 11   |
| 4/ 2         | 290 | 49   | 49    | 36   |
| 4/ 3         | 420 | 55   | 43    | 51   |
| 4/ 4         | 450 | 36   | 23    | 26   |
| 4/ 5         | 210 | 40   | 30    | 28   |
| 4/ 6         | 230 | 34   | 17    | 17   |
| 4/ 7         | 400 | 35   | 24    | 18   |
| 4/ 8         | 510 | 45   | 23    | 23   |
| 4/ 9         | 190 | 35   | 28    | 28   |
| 4/10         | 520 | 38   | 33    | 25   |
| 4/11         | 410 | 78   | 50    | 57   |
| 4/12         | 200 | 37   | 32    | 45   |
| 4/13         | 230 | 60   | 28    | 25   |
| 4/14         | 390 | 44   | 25    | 19   |
| 4/15         | 310 | 40   | 31    | 20   |
| 4/16         | 260 | 40   | 29    | 25   |
| 4/17         | 160 | 54   | 25    | 57   |
| 4/18         | 410 | 36   | 31    | 38   |

TABLE A-7. TOTAL ROD<sub>5</sub> (continued)  
(mg/l)

| 1975<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/19         | 55  | 20   | 19    | 21   |
| 4/20         | 160 | 33   | 61    | 30   |
| 4/21         | 310 | 51   | 40    | 24   |
| 4/22         | 130 | -    | 150   | 36   |
| 4/23         | 230 | 32   | 28    | 21   |
| 4/24         | 160 | 36   | 39    | 30   |
| 4/25         | -   | 47   | 42    | 35   |
| 4/26         | 400 | 50   | 52    | 37   |
| 4/27         | 220 | 36   | 20    | 14   |
| 4/28         | 110 | 42   | 35    | 29   |
| 4/29         | 270 | 76   | 64    | 45   |
| 4/30         | 230 | 51   | 47    | 26   |
| 5/ 6         | 240 | 36   | 33    | 28   |
| 5/ 9         | 310 | 100  | 59    | 33   |
| 5/14         | 260 | 36   | 27    | 15   |
| 5/17         | 130 | 91   | 44    | 27   |
| 5/21         | 32  | 39   | 31    | 23   |
| 5/23         | 260 | 53   | 54    | 37   |
| 5/26         | 230 | 51   | 33    | 26   |
| 5/29         | 210 | 47   | 36    | 26   |
| 6/ 3         | 180 | 43   | 32    | 19   |
| 6/ 6         | 96  | 30   | 40    | 9.2  |
| 6/ 8         | 99  | 40   | 29    | 22   |
| 6/11         | 140 | 87   | 76    | 41   |
| 6/16         | -   | -    | -     | -    |
| 6/20         | 220 | 20   | 38    | 17   |
| 6/24         | 180 | 32   | 45    | 23   |
| 6/28         | 340 | 60   | 42    | 37   |
| 7/ 1         | 190 | 46   | 45    | 23   |
| 7/ 2         | 250 | 64   | 54    | 25   |
| 7/ 3         | 430 | 51   | 42    | 23   |
| 7/ 4         | 38  | 48   | 40    | 29   |
| 7/ 5         | 270 | 28   | 46    | 11   |
| 7/ 6         | 200 | 66   | 57    | 15   |
| 7/ 7         | 420 | 40   | 36    | 16   |
| 7/ 8         | 370 | 66   | 55    | 25   |
| 7/ 9         | 240 | 66   | 46    | 20   |
| 7/10         | 300 | 37   | 23    | 17   |
| 7/11         | 260 | 59   | 34    | 21   |

TABLE A-7. TOTAL  $\text{BOH}_5$  (continued)  
(mg/l)

| <u>1975</u><br><u>DATE</u> | <u>RAW</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|------------|-------------|--------------|-------------|
| 7/12                       | 180        | 57          | 38           | 57          |
| 7/13                       | 260        | 32          | 11           | 5.0         |
| 7/14                       | 290        | 59          | 66           | 21          |
| 7/15                       | 250        | 53          | 61           | 18          |
| 7/16                       | 260        | 66          | 65           | 30          |
| 7/17                       | 260        | 73          | 25           | 23          |
| 7/18                       | 230        | 62          | 22           | 22          |
| 7/19                       | 230        | 61          | 26           | 13          |
| 7/20                       | 49         | 33          | 16           | 20          |
| 7/21                       | 170        | 81          | 60           | 69          |
| 7/22                       | 170        | 75          | 25           | 61          |
| 7/23                       | 280        | 39          | 66           | 26          |
| 7/24                       | 140        | 55          | 32           | 26          |
| 7/25                       | 290        | 58          | 36           | 26          |
| 7/26                       | 300        | 81          | 28           | 19          |
| 7/27                       | 160        | 60          | 48           | 37          |
| 7/28                       | 660        | 65          | 65           | 31          |
| 7/29                       | 300        | 72          | 75           | 30          |
| 7/30                       | 350        | 61          | 50           | 25          |
| 7/31                       | 290        | 72          | 80           | 27          |
| 8/ 5                       | 250        | 60          | 61           | 26          |
| 8/ 7                       | 360        | 56          | 23           | 16          |
| 8/11                       | 120        | 90          | 73           | 66          |
| 8/12                       | 150        | 69          | 50           | 62          |
| 8/20                       | 130        | 62          | 60           | 29          |
| 8/22                       | 300        | 66          | 38           | 26          |
| 8/26                       | 280        | 79          | 62           | 67          |
| 8/28                       | 190        | 113         | 52           | 21          |

TABLE A-8. SOLUBLE BOD<sub>5</sub>  
(mg/l)

| 1974<br>DATE | NAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         | -   | 5.0  | 1.7   | 2.3  |
| 9/ 6         | 230 | 3.9  | 2.3   | 1.2  |
| 9/10         | -   | -    | -     | -    |
| 9/12         | 65  | 9.6  | 0.0   | 1.2  |
| 9/16         | 68  | 15.  | 5.4   | 3.4  |
| 9/19         | 68  | 16.  | 13.   | 3.6  |
| 9/25         | 170 | 16.  | 9.0   | 6.0  |
| 9/26         | 150 | 9.0  | 4.2   | 0.6  |
| 10/ 1        | 120 | 16.  | 12.   | 4.8  |
| 10/ 2        | 110 | 19.  | 11.   | 5.4  |
| 10/ 3        | 250 | 17.  | 7.0   | 6.0  |
| 10/ 4        | 160 | 19.  | 8.4   | 6.6  |
| 10/ 5        | 85  | 12.  | 6.0   | 2.0  |
| 10/ 6        | 96  | 13.  | 7.2   | 4.2  |
| 10/ 7        | 160 | 13.  | 7.8   | 5.4  |
| 10/ 8        | 18  | 3.0  | 4.8   | 1.6  |
| 10/ 9        | 66  | 16.  | 10.   | 4.2  |
| 10/10        | 110 | 18.  | 10.   | 5.4  |
| 10/11        | 150 | 13.  | 9.0   | 4.2  |
| 10/12        | 48  | 1.8  | 1.8   | 0.0  |
| 10/13        | 48  | 10.  | 5.4   | 3.0  |
| 10/14        | 180 | 17.  | 6.0   | 2.4  |
| 10/15        | 110 | 17.  | 6.0   | 2.4  |
| 10/16        | 96  | 12.  | 4.8   | 1.2  |
| 10/17        | 290 | 18.  | 6.6   | 2.4  |
| 10/18        | 170 | 14.  | 6.0   | 5.4  |
| 10/19        | 90  | 9.6  | 6.0   | 3.6  |
| 10/20        | 72  | 1.8  | 6.0   | 1.8  |
| 10/21        | 210 | 9.0  | 8.4   | 6.6  |
| 10/22        | 84  | 11.  | 9.6   | 4.8  |
| 10/23        | 120 | 19.  | 16.   | 9.0  |
| 10/24        | 42  | 6.0  | 1.2   | 0.6  |
| 10/25        | 30  | 11.  | 7.8   | 4.8  |
| 10/26        | 60  | 9.6  | 9.0   | 7.2  |
| 10/27        | 90  | 13.  | 13.   | 5.4  |
| 10/28        | 72  | 9.6  | 7.8   | 3.0  |
| 10/29        | 130 | 17.  | 11.   | 6.6  |
| 10/30        | 160 | 16.  | 10.   | 4.8  |
| 11/ 7        | 150 | 8.4  | 3.0   | 3.0  |
| 11/ 8        | 100 | 8.7  | 6.0   | 3.6  |
| 11/11        | 260 | 13.  | 4.8   | 0.6  |

TABLE A-8. SOLUBLE  $\text{CO}_2$  (continued)  
(mg/l)

| 1974<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 11/13        | 80  | 7.8  | 3.6   | 3.0  |
| 11/19        | 140 | 9.0  | 3.4   | 0.6  |
| 11/21        | 290 | 13.  | 6.6   | 2.4  |
| 11/25        | 320 | 6.2  | 6.2   | 0.0  |
| 11/26        | 170 | 21.  | 13.   | 0.6  |
| 12/ 4        | 160 | 14.  | 7.2   | 1.8  |
| 12/ 6        | 260 | 25.  | 13.   | 3.0  |
| 12/ 9        | 180 | 16.  | 3.6   | 0.6  |
| 12/11        | 190 | 48.  | 22.   | 4.2  |
| 12/17        | 150 | 13.  | 3.6   | 0.6  |
| 12/19        | 270 | 43.  | 29.   | 6.0  |
| 12/23        | 84  | 11.  | 3.6   | 1.2  |
| 12/27        | 180 | 8.4  | 1.2   | 0.0  |
| 1975         |     |      |       |      |
| 1/ 3         | 130 | 12.  | 3.0   | 2.4  |
| 1/ 4         | 130 | 14.  | 7.8   | 0.6  |
| 1/ 5         | 90  | 13.  | 9.6   | 6.0  |
| 1/ 6         | 140 | 26.  | 12.   | 7.8  |
| 1/ 7         | 84  | 10.  | 12.   | 1.2  |
| 1/ 8         | 100 | 20.  | 13.   | 7.2  |
| 1/ 9         | 130 | 13.  | 3.4   | 11.  |
| 1/10         | 250 | 46.  | 14.   | 13.  |
| 1/11         | 90  | 7.8  | 3.4   | 3.6  |
| 1/12         | 60  | 9.0  | 6.2   | 2.4  |
| 1/13         | 390 | 30.  | 22.   | 15.  |
| 1/14         | 96  | 16.  | 10.   | 7.8  |
| 1/15         | 170 | 19.  | 8.4   | 3.2  |
| 1/16         | 240 | 26.  | 14.   | 9.0  |
| 1/17         | 320 | 19.  | 22.   | 7.8  |
| 1/18         | 360 | 43.  | 46.   | 17.  |
| 1/19         | 170 | 19.  | 9.6   | 6.6  |
| 1/20         | 190 | 18.  | 11.   | 7.8  |
| 1/21         | 150 | 14.  | 10.   | 3.4  |
| 1/22         | 110 | 10.  | 7.8   | 3.4  |
| 1/23         | 30  | 16.  | 13.   | 8.4  |
| 1/24         | 280 | 15.  | 4.8   | 3.6  |
| 1/25         | 250 | 20.  | 7.8   | 1.8  |
| 1/26         | 130 | 13.  | 11.   | 3.4  |
| 1/27         | 130 | 12.  | 6.8   | 1.2  |
| 1/28         | 160 | 17.  | 11.   | 7.8  |

TABLE A-6. SOLUBLE  $\text{SOH}_2$  (continued)  
(mg/l)

| 1975<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 1/29         | 260 | 35.  | 22.   | 13.  |
| 1/30         | 110 | 11.  | 6.0   | 10.  |
| 1/31         | 160 | 11.  | 0.0   | 0.0  |
| 2/ 1         | 78  | 5.6  | 0.0   | 0.0  |
| 2/ 6         | 66  | 6.0  | 3.6   | 1.2  |
| 2/ 8         | 170 | 6.0  | 0.6   | 1.2  |
| 2/11         | 56  | 8.6  | 6.8   | 3.6  |
| 2/14         | 310 | 16.  | 6.0   | 6.8  |
| 2/16         | 110 | 11.  | 3.6   | 1.2  |
| 2/19         | 12  | 5.6  | 5.6   | 0.0  |
| 2/24         | 90  | 12.  | 6.2   | 3.6  |
| 2/27         | 220 | 16.  | 6.6   | 6.6  |
| 3/ 6         | 310 | 17.  | 3.0   | 6.2  |
| 3/ 7         | 180 | 16.  | 7.8   | 9.0  |
| 3/13         | 110 | 11.  | 6.0   | 6.8  |
| 3/15         | 78  | 10.  | 7.8   | 7.2  |
| 3/18         | 170 | 31.  | 3.0   | 0.0  |
| 3/21         | 270 | 8.5  | 3.1   | 0.8  |
| 3/26         | 230 | 11.  | 1.8   | 0.0  |
| 3/28         | 96  | 3.6  | 1.2   | 0.0  |
| 4/ 1         | 86  | 3.0  | 3.0   | 0.0  |
| 4/ 2         | 160 | 9.0  | 6.2   | 0.0  |
| 4/ 3         | 200 | 13.  | 7.2   | 3.0  |
| 4/ 4         | 120 | 8.6  | 0.6   | 0.0  |
| 4/ 5         | 90  | 17.  | 10.   | 6.0  |
| 4/ 6         | 100 | 7.8  | 3.0   | 0.6  |
| 4/ 7         | 160 | 17.  | 6.2   | 0.6  |
| 4/ 8         | 160 | 12.  | 2.6   | 1.2  |
| 4/ 9         | 90  | 10.  | 3.6   | 3.6  |
| 4/10         | 220 | 20.  | 7.8   | 5.6  |
| 4/11         | 240 | -    | 10.   | -    |
| 4/12         | 130 | 16.  | 9.0   | 7.8  |
| 4/13         | 230 | 23.  | 23.   | 0.0  |
| 4/14         | 96  | 17.  | 10.   | 7.2  |
| 4/15         | 130 | 10.  | 0.0   | 0.0  |
| 4/16         | 100 | 20.  | 3.6   | 0.6  |
| 4/17         | 190 | -    | 19.   | 10.  |
| 4/18         | 160 | 38.  | 17.   | 12.  |
| 4/19         | 68  | 12.  | 6.6   | 7.8  |
| 4/20         | 56  | 10.  | 10.   | 7.8  |



TABLE A-8. SOLUBLE BOD<sub>5</sub> (continued)  
(mg/l)

| 1975<br>DATE | BAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/21         | 90  | 13.  | 15.   | 14.  |
| 4/22         | 66  | 25.  | 16.   | 13.  |
| 4/23         | 90  | 6.0  | 4.2   | 8.4  |
| 4/24         | 60  | 4.8  | 8.4   | 0.0  |
| 4/25         | -   | 23.  | 13.   | 10.  |
| 4/26         | 210 | 17.  | 13.   | 11.  |
| 4/27         | 80  | 16.  | 7.2   | 5.4  |
| 4/28         | 130 | 17.  | 13.   | 1.8  |
| 4/29         | 120 | 20.  | 15.   | 6.6  |
| 4/30         | 130 | 14.  | 0.0   | 0.0  |
| 5/ 6         | 100 | 11.  | 6.0   | 4.8  |
| 5/ 9         | 180 | 16.  | 19.   | 11.  |
| 5/14         | 78  | 12.  | 6.0   | 1.2  |
| 5/17         | 24  | 25.  | 17.   | 10.  |
| 5/21         | 18  | 7.2  | 7.8   | 5.4  |
| 5/23         | 130 | 17.  | 17.   | 14.  |
| 5/26         | 150 | 9.6  | 7.2   | 5.4  |
| 5/29         | 78  | 5.4  | 4.2   | 1.8  |
| 6/ 3         | 66  | 6.0  | 4.2   | 0.6  |
| 6/ 6         | 72  | 4.2  | 2.4   | 0.0  |
| 6/ 8         | 18  | 6.6  | 1.8   | 1.2  |
| 6/11         | -   | 36.  | 22.   | 3.0  |
| 6/16         | -   | -    | -     | -    |
| 6/20         | 78  | 4.2  | 3.0   | 0.6  |
| 6/24         | 72  | 6.0  | 3.0   | 5.4  |
| 6/28         | 160 | 13.  | 14.   | 5.4  |
| 7/ 1         | 90  | 17.  | 16.   | 4.2  |
| 7/ 2         | 170 | 19.  | 13.   | 4.8  |
| 7/ 3         | 220 | 16.  | 6.6   | 0.6  |
| 7/ 4         | 24  | 16.  | 12.   | 2.4  |
| 7/ 5         | 54  | 22.  | 9.0   | 0.0  |
| 7/ 6         | 110 | 25.  | 22.   | 3.6  |
| 7/ 7         | 250 | 16.  | 6.4   | 3.0  |
| 7/ 8         | 180 | 31.  | 11.   | 11.  |
| 7/ 9         | 66  | 17.  | 6.6   | 0.0  |
| 7/10         | 140 | 15.  | 4.2   | 0.6  |
| 7/11         | 140 | 27.  | 12.   | 6.6  |
| 7/12         | 160 | 34.  | 13.   | 9.0  |
| 7/13         | 100 | 17.  | 0.0   | 0.0  |
| 7/14         | 120 | 5.4  | 0.0   | 0.6  |

TABLE A-8. SOLUBLE BCS<sub>5</sub> (continued)  
(mg/l)

| 1975<br>DATE | NAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 7/15         | 140 | 25.  | 12.   | 1.2  |
| 7/16         | 110 | 21.  | 10.   | 3.0  |
| 7/17         | 180 | 31.  | 8.4   | 6.6  |
| 7/18         | 120 | 19.  | 4.2   | 2.4  |
| 7/19         | 96  | 13.  | 4.8   | 1.2  |
| 7/20         | -   | 13.  | 4.8   | 4.2  |
| 7/21         | 250 | 23.  | 7.8   | 8.4  |
| 7/22         | 120 | 20.  | 9.6   | 6.0  |
| 7/23         | 160 | 17.  | 11.   | 3.0  |
| 7/24         | 270 | 23.  | 10.   | 4.8  |
| 7/25         | 110 | 17.  | 8.4   | 4.8  |
| 7/26         | 84  | 11.  | 9.0   | 4.6  |
| 7/27         | 96  | 17.  | 13.   | 3.6  |
| 7/28         | 180 | 22.  | 9.6   | 4.2  |
| 7/29         | 160 | 9.6  | 20.   | 3.0  |
| 7/30         | 160 | 10.  | 21.   | 16.  |
| 7/31         | 130 | 7.8  | 19.   | 10.  |
| 8/ 5         | 160 | 10.  | 5.4   | 4.2  |
| 8/ 7         | 150 | 12.  | 5.4   | 1.2  |
| 8/11         | 210 | 8.4  | 10.   | 4.8  |
| 8/12         | 230 | 40.  | 13.   | 7.8  |
| 8/20         | 160 | 16.  | 9.    | 7.2  |
| 8/22         | 200 | 7.8  | 9.6   | 6.0  |
| 8/26         | 220 | 15.  | 11.   | 9.0  |
| 8/28         | 130 | 13.  | 9.6   | 8.4  |

TABLE A-9. TOTAL COD  
(mg/l)

| 1974<br>DATE | BAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         | -   | 120  | 150   | 150  |
| 9/ 6         | 790 | 190  | 190   | 130  |
| 9/10         | 460 | 170  | -     | 130  |
| 9/12         | 500 | 160  | 140   | 130  |
| 9/16         | 600 | 180  | 130   | 110  |
| 9/19         | 810 | 200  | 200   | 120  |
| 9/24         | 680 | 200  | 150   | 120  |
| 9/26         | 590 | 240  | 170   | 140  |
| 10/ 1        | 820 | 220  | 210   | 150  |
| 10/ 2        | 400 | 210  | 150   | 130  |
| 10/ 3        | 800 | 200  | 150   | 140  |
| 10/ 4        | 490 | 210  | 150   | 140  |
| 10/ 5        | 500 | 170  | 130   | 120  |
| 10/ 6        | 440 | 190  | 140   | 130  |
| 10/ 7        | 460 | 180  | 150   | 170  |
| 10/ 8        | 370 | 190  | 180   | 150  |
| 10/ 9        | 510 | 970  | 640   | 300  |
| 10/10        | 480 | 200  | 180   | 140  |
| 10/11        | 700 | 190  | 170   | 140  |
| 10/12        | 400 | 170  | 160   | 130  |
| 10/13        | 360 | 220  | 170   | 150  |
| 10/14        | 710 | 180  | 140   | 120  |
| 10/15        | 560 | 180  | 160   | 140  |
| 10/16        | 480 | 150  | 100   | 100  |
| 10/17        | 820 | 180  | 160   | 100  |
| 10/18        | 580 | 200  | 170   | 150  |
| 10/19        | 820 | 290  | 220   | 250  |
| 10/20        | 520 | 180  | 150   | 150  |
| 10/21        | 670 | 190  | 160   | 120  |
| 10/22        | 360 | 190  | 170   | 140  |
| 10/23        | 470 | 180  | 160   | 160  |
| 10/24        | 350 | 200  | 150   | 130  |
| 10/25        | 170 | 180  | 160   | 130  |
| 10/26        | 310 | 230  | 180   | 180  |
| 10/ 7        | 800 | 250  | 240   | 190  |
| 10/28        | 980 | 200  | 170   | 140  |
| 10/29        | 610 | 260  | 170   | 140  |
| 10/30        | 620 | 220  | 180   | 140  |
| 11/ 7        | 650 | 160  | 160   | 120  |
| 11/ 8        | 440 | 170  | 150   | 130  |

TABLE A-9: TOTAL OGD (continued)  
(mg/l)

| 1974<br>DATE | SAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 11/11        | 730 | 150  | 120   | 100  |
| 11/13        | 130 | 140  | 130   | 70   |
| 11/19        | 390 | 150  | 120   | 110  |
| 11/21        | 740 | 180  | 150   | 120  |
| 11/25        | 740 | 130  | 130   | 110  |
| 11/26        | 990 | 170  | 160   | 140  |
| 12/ 4        | 550 | 140  | 140   | 120  |
| 12/ 6        | 740 | 160  | 120   | 110  |
| 12/ 9        | 680 | 170  | 120   | 110  |
| 12/11        | 650 | 170  | 120   | 100  |
| 12/17        | 580 | 170  | 140   | 96   |
| 12/19        | 560 | 170  | 140   | 100  |
| 12/23        | 590 | 170  | 130   | 140  |
| 12/27        | 560 | 150  | 120   | 90   |
| <u>1975</u>  |     |      |       |      |
| 1/ 3         | 530 | 170  | 80    | 110  |
| 1/ 4         | 540 | 190  | 130   | 110  |
| 1/ 5         | 660 | 180  | 140   | 90   |
| 1/ 6         | 460 | 200  | 140   | 100  |
| 1/ 7         | 550 | 180  | 130   | 120  |
| 1/ 8         | 380 | 160  | 130   | 120  |
| 1/ 9         | 750 | 160  | 130   | 130  |
| 1/10         | 620 | 190  | 140   | 92   |
| 1/11         | 440 | 150  | 130   | 80   |
| 1/12         | 160 | 160  | 120   | 80   |
| 1/13         | 480 | 160  | 120   | 98   |
| 1/14         | 440 | 310  | 140   | -    |
| 1/15         | 640 | 140  | 98    | 67   |
| 1/16         | 870 | 160  | 120   | 89   |
| 1/17         | 710 | 200  | 140   | 150  |
| 1/18         | 520 | 170  | 130   | 120  |
| 1/19         | 610 | 170  | 140   | 130  |
| 1/20         | 540 | 160  | 140   | 97   |
| 1/21         | 800 | 170  | 140   | 96   |
| 1/22         | 340 | 170  | 110   | 90   |
| 1/23         | 620 | 160  | 87    | 83   |
| 1/24         | 780 | 150  | 140   | 110  |
| 1/25         | 930 | 190  | 130   | 94   |
| 1/26         | 590 | 210  | 150   | 120  |

TABLE A-9. TOTAL COB (continued)  
(mg/l)

| <u>1975</u><br><u>DATE</u> | <u>RAW</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|------------|-------------|--------------|-------------|
| 1/27                       | 740        | 170         | 140          | 120         |
| 1/28                       | 490        | 180         | 150          | 120         |
| 1/29                       | 710        | 180         | 130          | 110         |
| 1/30                       | 280        | 180         | 160          | 110         |
| 1/31                       | 260        | 100         | 80           | 69          |
| 2/ 1                       | 630        | 160         | 150          | 110         |
| 2/ 6                       | 400        | 180         | 140          | 120         |
| 2/ 8                       | 310        | 190         | 150          | 130         |
| 2/11                       | 550        | 160         | 140          | 180         |
| 2/14                       | 900        | 170         | 140          | 140         |
| 2/16                       | 800        | 260         | 180          | 150         |
| 2/19                       | 520        | 120         | 100          | 100         |
| 2/24                       | 680        | 180         | 120          | 140         |
| 2/27                       | 690        | 220         | 160          | 180         |
| 3/ 4                       | 970        | 210         | 170          | 150         |
| 3/ 7                       | 480        | 180         | 130          | 110         |
| 3/13                       | 420        | 200         | 180          | 120         |
| 3/15                       | 300        | 200         | 140          | 120         |
| 3/18                       | 380        | 190         | 140          | 140         |
| 3/21                       | 940        | 180         | 130          | 130         |
| 3/26                       | 690        | 170         | 140          | 88          |
| 3/28                       | 500        | 160         | 140          | 110         |
| 4/ 1                       | 370        | 140         | 110          | 86          |
| 4/ 2                       | 520        | 140         | 110          | 110         |
| 4/ 3                       | 840        | 170         | 140          | 140         |
| 4/ 4                       | 940        | 170         | 93           | 120         |
| 4/ 5                       | 380        | 130         | 93           | 110         |
| 4/ 6                       | 450        | 140         | 95           | 120         |
| 4/ 7                       | 560        | 130         | 100          | 140         |
| 4/ 8                       | 700        | 160         | 100          | 130         |
| 4/ 9                       | 520        | 160         | 150          | 120         |
| 4/10                       | 690        | 140         | 87           | 130         |
| 4/11                       | -          | 130         | 130          | 75          |
| 4/12                       | 680        | 280         | 130          | 180         |
| 4/13                       | 830        | 170         | 110          | 130         |
| 4/14                       | 430        | 98          | 86           | 110         |
| 4/15                       | -          | 150         | 120          | 140         |
| 4/16                       | 530        | 120         | 74           | 110         |
| 4/17                       | 940        | 170         | 110          | 150         |
| 4/18                       | 500        | 150         | 86           | 110         |

TABLE A-9. TOTAL CO<sub>2</sub> (continued)  
(mg/l)

| 1975<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/19         | 250 | 130  | 95    | 95   |
| 4/20         | 390 | 220  | 160   | 120  |
| 4/21         | 390 | 160  | 160   | 110  |
| 4/22         | 220 | 150  | 130   | 95   |
| 4/23         | 480 | 150  | 110   | 150  |
| 4/24         | 630 | 330  | 110   | 120  |
| 4/25         | 320 | 180  | 90    | 98   |
| 4/26         | 880 | 160  | 120   | 93   |
| 4/27         | 580 | 160  | 120   | 97   |
| 4/28         | 300 | 320  | 130   | 110  |
| 4/29         | 600 | 180  | 170   | 120  |
| 4/30         | 730 | 170  | 150   | 130  |
| 5/ 6         | 370 | 110  | 120   | 120  |
| 5/ 9         | 640 | 340  | 220   | 160  |
| 5/14         | 370 | 140  | 160   | 170  |
| 5/17         | 190 | 350  | 200   | 160  |
| 5/21         | 91  | 200  | 160   | 130  |
| 5/23         | 670 | 220  | 200   | 150  |
| 5/26         | 140 | 220  | 230   | 140  |
| 5/29         | 330 | 240  | 230   | 120  |
| 6/ 3         | 410 | 310  | 240   | 160  |
| 6/ 6         | 220 | 200  | 180   | 110  |
| 6/ 8         | 280 | 190  | 170   | 160  |
| 6/11         | 530 | 190  | 160   | 120  |
| 6/16         | 580 | 250  | 160   | 160  |
| 6/20         | 570 | 150  | 140   | 100  |
| 6/24         | 420 | 150  | 200   | 110  |
| 6/28         | 650 | 190  | 150   | 120  |
| 7/ 1         | 420 | 260  | 220   | 130  |
| 7/ 2         | 620 | 230  | 190   | 110  |
| 7/ 3         | 760 | 200  | 190   | 140  |
| 7/ 4         | 95  | 210  | 210   | 120  |
| 7/ 5         | 560 | 200  | 220   | 150  |
| 7/ 6         | 300 | 260  | 220   | 150  |
| 7/ 7         | 860 | 250  | 200   | 110  |
| 7/ 8         | 490 | 310  | 190   | 100  |
| 7/ 9         | 480 | 280  | 200   | 130  |
| 7/10         | 640 | 250  | 140   | 130  |
| 7/11         | 520 | 240  | 210   | 120  |
| 7/12         | 350 | 330  | 210   | 230  |



TABLE A-9. TOTAL OOB (continued)  
(mg/l)

| 1975<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 7/13         | 600 | 240  | 190   | 170  |
| 7/14         | 600 | 230  | 270   | 130  |
| 7/15         | 490 | 220  | 280   | 140  |
| 7/16         | 360 | 250  | 170   | 120  |
| 7/17         | 610 | 270  | 140   | 140  |
| 7/18         | 710 | 250  | 170   | 140  |
| 7/19         | 530 | 270  | 170   | 160  |
| 7/20         | 91  | 280  | 180   | 150  |
| 7/21         | 720 | 470  | 220   | 160  |
| 7/22         | 400 | 360  | 350   | 180  |
| 7/23         | 600 | 300  | 410   | 160  |
| 7/24         | 770 | 260  | 250   | 130  |
| 7/25         | 680 | 270  | 290   | 190  |
| 7/26         | 700 | 280  | 300   | 160  |
| 7/27         | 220 | 190  | 260   | 150  |
| 7/28         | 780 | 250  | 280   | 170  |
| 7/29         | 520 | 330  | 370   | 150  |
| 7/30         | 520 | 250  | 280   | 140  |
| 7/31         | 520 | 230  | 380   | 150  |
| 8/ 5         | 510 | 220  | 230   | 180  |
| 8/ 7         | 660 | 240  | 190   | 160  |
| 8/11         | 560 | 280  | 210   | 170  |
| 8/12         | 430 | 380  | 210   | 190  |
| 8/20         | 520 | 230  | 220   | 160  |
| 8/22         | 470 | 240  | 260   | 150  |
| 8/26         | 630 | 260  | 180   | 160  |
| 8/28         | 570 | 720  | 190   | 160  |

TABLE A-10. SOLUBLE COD  
(mg/l)

| 1974<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         | -   | 83   | 71    | 69   |
| 9/ 6         | 410 | 83   | 79    | 75   |
| 9/10         | 150 | 87   | -     | 58   |
| 9/13         | 290 | 82   | 57    | 57   |
| 9/16         | 160 | 85   | 69    | 65   |
| 9/19         | 140 | 81   | 76    | 52   |
| 9/24         | 320 | 84   | 72    | 56   |
| 9/26         | 270 | 76   | 76    | 64   |
| 10/ 1        | 170 | 87   | 83    | 71   |
| 10/ 2        | 150 | 120  | 71    | 47   |
| 10/ 3        | 530 | 92   | 68    | 60   |
| 10/ 4        | 290 | 83   | 71    | 60   |
| 10/ 5        | 190 | 99   | 87    | 48   |
| 10/ 6        | 140 | 89   | 72    | 39   |
| 10/ 7        | 250 | 92   | 79    | 54   |
| 10/ 8        | 140 | 74   | 74    | 53   |
| 10/ 9        | 450 | 740  | 270   | 66   |
| 10/10        | 240 | 64   | 60    | 44   |
| 10/11        | 280 | 87   | 79    | 59   |
| 10/12        | 180 | 87   | 67    | 59   |
| 10/13        | 120 | 120  | 100   | 88   |
| 10/14        | 290 | 74   | 65    | 46   |
| 10/15        | 220 | 87   | 73    | 55   |
| 10/16        | 140 | 75   | 66    | 19   |
| 10/17        | 430 | 47   | 34    | 17   |
| 10/18        | 260 | 100  | 73    | 73   |
| 10/19        | 180 | 160  | 80    | 46   |
| 10/20        | 130 | 63   | 63    | 29   |
| 10/21        | 360 | 75   | 75    | 55   |
| 10/22        | 140 | 66   | 62    | 74   |
| 10/23        | 140 | 71   | 71    | 58   |
| 10/24        | 100 | 89   | 85    | 62   |
| 10/25        | 100 | 62   | 70    | 47   |
| 10/26        | 88  | 30   | 46    | 38   |
| 10/27        | 190 | 120  | 110   | 80   |
| 10/28        | 140 | 69   | 61    | 46   |
| 10/29        | 240 | 96   | 74    | 59   |
| 10/30        | 270 | 83   | 75    | 43   |
| 11/ 7        | 340 | 69   | 66    | 40   |
| 11/ 8        | 210 | 70   | 62    | 48   |

TABLE A-10. SOLUBLE COD (continued)

| 1974<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 11/11        | 170 | 30   | 15    | 11   |
| 11/13        | 90  | 49   | 30    | 12   |
| 11/19        | 140 | 60   | 53    | 42   |
| 11/21        | 420 | 69   | 53    | 38   |
| 11/25        | 350 | 54   | 61    | 54   |
| 11/26        | 200 | 100  | 110   | 74   |
| 12/ 4        | 250 | 68   | 64    | 64   |
| 12/ 6        | 300 | 90   | 60    | 56   |
| 12/ 9        | 320 | 60   | 60    | 64   |
| 12/11        | 210 | 68   | 68    | 32   |
| 12/17        | 210 | 68   | 64    | 60   |
| 12/19        | 300 | 72   | 60    | 53   |
| 12/23        | 180 | 83   | 83    | 67   |
| 12/27        | 310 | 55   | 55    | 55   |
| <u>1975</u>  |     |      |       |      |
| 1/ 3         | 220 | 85   | 53    | 78   |
| 1/ 4         | 280 | 110  | 75    | 75   |
| 1/ 5         | 170 | 77   | 39    | 56   |
| 1/ 6         | 160 | 70   | 58    | 47   |
| 1/ 7         | 220 | 85   | 68    | 62   |
| 1/ 8         | 130 | 59   | 45    | 42   |
| 1/ 9         | 310 | 56   | 38    | 35   |
| 1/10         | 270 | 75   | 72    | 75   |
| 1/11         | 180 | 58   | 62    | 41   |
| 1/12         | 160 | 63   | 49    | 42   |
| 1/13         | -   | 84   | 49    | 63   |
| 1/14         | 160 | 120  | 66    | -    |
| 1/15         | 220 | 75   | 47    | 31   |
| 1/16         | 300 | 46   | 19    | 31   |
| 1/17         | 380 | 85   | 85    | 63   |
| 1/18         | 120 | 73   | 57    | 61   |
| 1/19         | 140 | 80   | 57    | 50   |
| 1/20         | 260 | 86   | 39    | 39   |
| 1/21         | 200 | 76   | 76    | 57   |
| 1/22         | 170 | 75   | 71    | 56   |
| 1/23         | 160 | 12   | 18    | 20   |
| 1/24         | 420 | 64   | 72    | 84   |
| 1/25         | 370 | 79   | 67    | 59   |
| 1/26         | 140 | 74   | 55    | 51   |
| 1/27         | 280 | 86   | 66    | 59   |

TABLE A-10. SOLUBLE OOD (continued)  
(mg/l)

| 1975<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 1/28         | 190 | 87   | 79    | 75   |
| 1/29         | 100 | 59   | 59    | 51   |
| 1/30         | 180 | 62   | 60    | 70   |
| 1/31         | 230 | 65   | 46    | 31   |
| 2/ 1         | 180 | 76   | 61    | 73   |
| 2/ 6         | 150 | 84   | 65    | 65   |
| 2/ 8         | 130 | 72   | 76    | 64   |
| 2/11         | 150 | 110  | 90    | 94   |
| 2/14         | 490 | 64   | 45    | 36   |
| 2/16         | 420 | 120  | 75    | 41   |
| 2/19         | 38  | 19   | 16    | 16   |
| 2/24         | 190 | 56   | 32    | 32   |
| 2/27         | 360 | 87   | 79    | 59   |
| 3/ 4         | 430 | 100  | 71    | 63   |
| 3/ 7         | 210 | 77   | 53    | 37   |
| 3/11         | 150 | 37   | 29    | 18   |
| 3/15         | 81  | 40   | 37    | 33   |
| 3/18         | 170 | 61   | 38    | 50   |
| 3/21         | 460 | 53   | 61    | 69   |
| 3/26         | 210 | 73   | 59    | 51   |
| 3/28         | 180 | 40   | 38    | 7.0  |
| 4/ 1         | 150 | 86   | 41    | 52   |
| 4/ 2         | 200 | 56   | 60    | 60   |
| 4/ 3         | 250 | 37   | 41    | 41   |
| 4/ 4         | 520 | 45   | 53    | 49   |
| 4/ 5         | 150 | 57   | 65    | 69   |
| 4/ 6         | 180 | 70   | 58    | 66   |
| 4/ 7         | 190 | 79   | 75    | 83   |
| 4/ 8         | 210 | 74   | 62    | 70   |
| 4/ 9         | 150 | 70   | 66    | 62   |
| 4/10         | 350 | 91   | 54    | 91   |
| 4/11         | 250 | 62   | 50    | 46   |
| 4/12         | 160 | 74   | 66    | 70   |
| 4/13         | 180 | 98   | 90    | 92   |
| 4/14         | 100 | 73   | 49    | 41   |
| 4/15         | 250 | 66   | 41    | 56   |
| 4/16         | 120 | 61   | 53    | 41   |
| 4/17         | 150 | 69   | 69    | 81   |
| 4/18         | 200 | 94   | 45    | 61   |
| 4/19         | 79  | 41   | 29    | 30   |
| 4/20         | 129 | 53   | 41    | 49   |

TABLE A-10. SOLUBLE COD (continued)  
(mg/l)

| 1975<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/21         | 150 | 74   | 66    | 66   |
| 4/22         | 99  | 91   | 82    | 53   |
| 4/23         | 130 | 89   | 81    | 85   |
| 4/24         |     |      |       |      |
| 4/25         | 74  | 57   | 45    | 53   |
| 4/26         | 210 | 57   | 49    | 49   |
| 4/27         | 130 | 93   | 40    | 57   |
| 4/28         | 140 | 110  | 110   | 53   |
| 4/29         | 40  | 81   | 77    | 69   |
| 4/30         | 140 | 57   | 53    | 45   |
| 5/ 6         | 120 | 77   | 40    | 12   |
| 5/ 9         | 240 | 81   | 68    | 47   |
| 5/14         | 190 | 100  | 77    | 51   |
| 5/17         | 56  | 69   | 82    | 47   |
| 5/21         | 43  | 73   | 47    | 34   |
| 5/23         | 130 | 83   | 66    | 42   |
| 5/26         | 62  | 58   | 58    | 66   |
| 5/29         | 91  | 65   | 48    | 26   |
| 6/ 3         | 80  | 50   | 76    | 55   |
| 6/ 6         | 30  | 43   | 51    | 26   |
| 6/ 8         | 84  | 59   | 63    | 46   |
| 6/11         | 170 | 59   | 55    | 17   |
| 6/16         | 210 | 70   | 63    | 41   |
| 6/20         | 160 | 43   | 32    | 25   |
| 6/24         | 120 | 44   | 55    | 26   |
| 6/28         | 170 | 44   | 69    | 44   |
| 7/ 1         | 140 | 62   | 51    | 33   |
| 7/ 2         | 120 | 77   | 80    | 47   |
| 7/ 3         | 310 | 73   | 36    | 33   |
| 7/ 4         | 73  | 70   | 62    | 37   |
| 7/ 5         | 200 | 89   | 98    | 69   |
| 7/ 6         | 130 | 79   | 66    | 45   |
| 7/ 7         | 190 | 120  | 82    | 66   |
| 7/ 8         | 190 | 98   | 78    | 29   |
| 7/ 9         | 130 | 66   | 82    | 45   |
| 7/10         | 270 | 70   | 70    | 53   |
| 7/11         | 160 | 78   | 66    | 41   |
| 7/12         | 160 | 87   | 74    | 74   |
| 7/13         | 220 | 93   | 81    | 61   |
| 7/14         | 210 | 71   | 71    | 58   |

TABLE A-10. SOLUBLE COD (continued)  
(mg/l)

| <u>1975</u><br><u>DATE</u> | <u>NAM</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|------------|-------------|--------------|-------------|
| 7/15                       | 130        | 92          | 71           | 50          |
| 7/16                       | 140        | 95          | 87           | 71          |
| 7/17                       | 220        | 87          | 66           | 66          |
| 7/18                       | 150        | 75          | 79           | 46          |
| 7/19                       | 110        | 83          | 79           | 79          |
| 7/20                       | 66         | 62          | 75           | 71          |
| 7/21                       | 140        | 91          | 83           | 81          |
| 7/22                       | 120        | 100         | 50           | 37          |
| 7/23                       | 190        | 83          | 100          | 87          |
| 7/24                       | 440        | 75          | 53           | 79          |
| 7/25                       | 200        | 90          | 53           | 93          |
| 7/26                       | 170        | 89          | 77           | 61          |
| 7/27                       | 120        | 65          | 73           | 57          |
| 7/28                       | 120        | 83          | 77           | 65          |
| 7/29                       | 170        | 93          | 81           | 61          |
| 7/30                       | 200        | 85          | 85           | 65          |
| 7/31                       | 180        | 87          | 70           | 72          |
| 8/ 5                       | 120        | 110         | 84           | 78          |
| 8/ 7                       | 110        | 90          | 73           | 81          |
| 8/11                       | 120        | 64          | 72           | 56          |
| 8/12                       | 100        | 56          | 64           | 56          |
| 8/20                       | 160        | 110         | 74           | 67          |
| 8/22                       | 210        | 98          | 82           | 90          |
| 8/26                       | 170        | 88          | 61           | 58          |
| 8/28                       | 280        | 117         | 82           | 59          |



TABLE A-11. TOTAL SUSPENDED SOLIDS  
(mg/l)

| 1974<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         |     | 63   | 61    | 66   |
| 9/ 6         | 110 | 80   | 87    | 87   |
| 9/10         | 130 | 84   | -     | 70   |
| 9/12         | 220 | 70   | 65    | 52   |
| 9/16         | 290 | 85   | 60    | 62   |
| 9/19         | 160 | 110  | 94    | 67   |
| 9/24         | 100 | 110  | 67    | 61   |
| 9/26         | 260 | 110  | 71    | 66   |
| 10/ 1        | 110 | 120  | 76    | 70   |
| 10/ 2        | 170 | 100  | 68    | 60   |
| 10/ 3        | 260 | 110  | 66    | 61   |
| 10/ 4        | 160 | 110  | 81    | 86   |
| 10/ 5        | 270 | 92   | 61    | 62   |
| 10/ 6        | 170 | 100  | 66    | 63   |
| 10/ 7        | 270 | 170  | 74    | 100  |
| 10/ 8        | 150 | 100  | 81    | 67   |
| 10/ 9        | 210 | 140  | 76    | 36   |
| 10/10        | 190 | 130  | 87    | 72   |
| 10/11        | 190 | 100  | 79    | 67   |
| 10/12        | 180 | 100  | 72    | 62   |
| 10/13        | 180 | 110  | 68    | 60   |
| 10/14        | 290 | 100  | 76    | 62   |
| 10/15        | 400 | 110  | 88    | 55   |
| 10/16        | 280 | 120  | 72    | 64   |
| 10/17        | 260 | 120  | 88    | 67   |
| 10/18        | 250 | 110  | 80    | 63   |
| 10/19        | 540 | 180  | 120   | 100  |
| 10/20        | 220 | 120  | 92    | 74   |
| 10/21        | 270 | 110  | 82    | 69   |
| 10/22        | 150 | 110  | 90    | 70   |
| 10/23        | 190 | 110  | 84    | 77   |
| 10/24        | 180 | 110  | 84    | 65   |
| 10/25        | 93  | 110  | 82    | 65   |
| 10/26        | 150 | 160  | 98    | 81   |
| 10/27        | 280 | 120  | 95    | 69   |
| 10/28        | 360 | 120  | 92    | 70   |
| 10/29        | 200 | 160  | 100   | 74   |
| 10/30        | 260 | 160  | 120   | 79   |
| 11/ 7        | 210 | 91   | 89    | 61   |
| 11/ 8        | 240 | 80   | 69    | 62   |

TABLE A-11. TOTAL SUSPENDED SOLIDS (continued)  
(mg/l)

| 1974<br>DATE | BAV | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 11/11        | 310 | 96   | 80    | 61   |
| 11/13        | 180 | 86   | 81    | 64   |
| 11/19        | 220 | 76   | 73    | 62   |
| 11/21        | 240 | 68   | 71    | 60   |
| 11/25        | 300 | 58   | 65    | 56   |
| 11/26        | 180 | 77   | 69    | 63   |
| 12/ 4        | 260 | 62   | 54    | 55   |
| 12/ 6        | 290 | 61   | 58    | 46   |
| 12/ 9        | 280 | 74   | 60    | 46   |
| 12/11        | 170 | 71   | 54    | 38   |
| 12/17        | 250 | 71   | 52    | 31   |
| 12/19        | 210 | 69   | 55    | 36   |
| 12/23        | 260 | 86   | 53    | 33   |
| 12/27        | 150 | 74   | 48    | 28   |
| 1975         |     |      |       |      |
| 1/ 3         | 230 | 78   | 38    | 35   |
| 1/ 4         | 250 | 81   | 54    | 34   |
| 1/ 5         | 340 | 82   | 62    | 32   |
| 1/ 6         | 210 | 150  | 58    | 40   |
| 1/ 7         | 190 | 86   | 62    | 46   |
| 1/ 8         | 190 | 79   | 56    | 46   |
| 1/ 9         | 240 | 86   | 62    | 58   |
| 1/10         | 190 | 81   | 60    | 42   |
| 1/11         | 220 | 79   | 57    | 35   |
| 1/12         | 170 | 83   | 58    | 42   |
| 1/13         | 220 | 88   | 64    | 46   |
| 1/14         | 170 | 80   | 58    | 40   |
| 1/15         | 270 | 68   | 55    | 60   |
| 1/16         | 250 | 82   | 56    | 46   |
| 1/17         | 300 | 92   | 61    | 42   |
| 1/18         | 200 | 75   | 51    | 42   |
| 1/19         | 190 | 91   | 57    | 54   |
| 1/20         | 160 | 70   | 61    | 46   |
| 1/21         | 240 | 80   | 63    | 34   |
| 1/22         | 190 | 77   | 64    | 56   |
| 1/23         | 270 | 76   | 70    | 51   |
| 1/24         | 260 | 75   | 56    | 46   |
| 1/25         | 430 | 91   | 57    | 58   |
| 1/26         | 410 | 91   | 66    | 35   |

TABLE A-11. TOTAL SUSPENDED SOLIDS (continued)  
(mg/l)

| 1975<br>DATE | RAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 1/27         | 360 | 82   | 65    | 61   |
| 1/28         | 230 | 81   | 59    | 51   |
| 1/29         | 300 | 95   | 80    | 71   |
| 1/30         | 300 | 80   | 52    | 53   |
| 1/31         | 170 | 79   | 55    | 53   |
| 2/ 1         | 420 | 75   | 60    | 58   |
| 2/ 6         | 170 | 78   | 60    | 56   |
| 2/ 8         | 310 | 70   | 56    | 48   |
| 2/11         | 280 | 77   | 53    | 63   |
| 2/14         | 330 | 73   | 78    | 54   |
| 2/16         | 600 | 51   | 53    | 49   |
| 2/19         | 370 | 61   | 49    | 52   |
| 2/24         | 280 | 90   | 58    | 69   |
| 2/27         | 170 | 92   | 71    | 97   |
| 3/ 4         | 460 | 99   | 68    | 58   |
| 3/ 7         | 230 | 110  | 120   | 70   |
| 3/12         | 200 | 140  | 110   | 81   |
| 3/15         | 220 | 120  | 100   | 70   |
| 3/18         | 300 | 120  | 100   | 85   |
| 3/21         | 340 | 130  | 100   | 75   |
| 3/26         | 270 | 90   | 83    | 86   |
| 3/28         | 240 | 88   | 79    | 59   |
| 4/ 1         | 180 | 84   | 84    | 61   |
| 4/ 2         | 310 | 85   | 97    | 60   |
| 4/ 3         | 310 | 86   | 80    | 78   |
| 4/ 4         | 900 | 100  | 45    | 53   |
| 4/ 5         | 520 | 89   | 56    | 81   |
| 4/ 6         | 330 | 80   | 50    | 66   |
| 4/ 7         | 320 | 68   | 53    | 40   |
| 4/ 8         | 230 | 49   | 62    | 50   |
| 4/ 9         | 410 | 61   | 52    | 56   |
| 4/10         | 310 | 60   | 36    | 56   |
| 4/11         | 540 | 66   | 58    | 23   |
| 4/12         | 410 | 81   | 42    | 71   |
| 4/13         | 340 | 64   | 46    | 60   |
| 4/14         | 340 | 51   | 27    | 46   |
| 4/15         | 260 | 66   | 42    | 56   |
| 4/16         | 310 | 56   | 37    | 49   |
| 4/17         | 300 | 73   | 41    | 68   |

TABLE A-11. TOTAL SUSPENDED SOLIDS (continued)  
(mg/l)

| 1975<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/17         | 200 | 73   | 61    | 68   |
| 4/18         | 140 | 60   | 35    | 53   |
| 4/19         | 120 | 58   | 31    | 54   |
| 4/20         | 300 | 96   | 82    | 55   |
| 4/21         | 280 | 88   | 51    | 51   |
| 4/22         | 270 | 150  | 53    | 49   |
| 4/23         | 210 | 67   | 77    | 47   |
| 4/24         | 140 | 99   | 54    | 2    |
| 4/25         | 200 | 96   | 50    | 44   |
| 4/26         | 380 | 120  | 55    | 45   |
| 4/27         | 220 | 73   | 46    | 52   |
| 4/28         | 300 | 80   | 46    | 55   |
| 4/29         | 120 | 98   | 84    | 60   |
| 4/30         | 280 | 67   | 66    | 61   |
| 5/ 6         | 230 | 88   | 72    | 67   |
| 5/ 9         | 250 | 160  | 78    | 68   |
| 5/14         | 260 | 64   | 75    | 82   |
| 5/17         | 110 | 260  | 89    | 90   |
| 5/21         | 86  | 91   | 91    | 72   |
| 5/23         | 330 | 120  | 110   | 76   |
| 5/26         | 56  | 110  | 120   | 83   |
| 5/29         | 200 | 130  | 130   | 82   |
| 6/ 3         | 190 | 130  | 130   | 83   |
| 6/ 6         | 580 | 130  | 210   | 96   |
| 6/ 8         | 120 | 100  | 95    | 91   |
| 6/11         | 310 | 120  | 100   | 74   |
| 6/16         | 270 | 150  | 87    | 86   |
| 6/20         | 420 | 94   | 120   | 70   |
| 6/24         | 280 | 130  | 130   | 69   |
| 6/28         | 340 | 110  | 94    | 92   |
| 7/ 1         | 280 | 200  | 140   | 91   |
| 7/ 2         | 280 | 130  | 110   | 72   |
| 7/ 3         | 360 | 150  | 120   | 74   |
| 7/ 4         | 58  | 140  | 130   | 55   |
| 7/ 5         | 390 | 100  | 130   | 80   |
| 7/ 6         | 210 | 130  | 110   | 62   |
| 7/ 7         | 560 | 150  | 130   | 51   |
| 7/ 8         | 330 | 260  | 130   | 57   |
| 7/ 9         | 310 | 190  | 130   | 71   |
| 7/10         | 270 | 150  | 86    | 60   |
| 7/11         | 310 | 110  | 87    | 60   |

TABLE A-11. TOTAL SUSPENDED SOLIDS (continued)  
(mg/l)

| 1975<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 7/12         | 260 | 200  | 120   | 88   |
| 7/13         | 280 | 120  | 84    | 84   |
| 7/14         | 340 | 120  | 160   | 95   |
| 7/15         | 120 | 140  | 210   | 110  |
| 7/16         | 340 | 190  | 180   | 95   |
| 7/17         | 420 | 240  | 110   | 88   |
| 7/18         | 340 | 160  | 76    | 71   |
| 7/19         | 400 | 160  | 78    | 62   |
| 7/20         | 86  | 180  | 120   | 57   |
| 7/21         | 410 | 430  | 180   | 96   |
| 7/22         | 260 | 250  | 180   | 110  |
| 7/23         | 180 | 200  | 290   | 113  |
| 7/24         | 260 | 160  | 150   | 63   |
| 7/25         | 440 | 160  | 150   | 73   |
| 7/26         | 440 | 180  | 190   | 65   |
| 7/27         | 140 | 120  | 170   | 71   |
| 7/28         | 170 | 150  | 170   | 74   |
| 7/29         | 390 | 190  | 260   | 82   |
| 7/30         | 400 | 160  | 190   | 81   |
| 7/31         | 340 | 120  | 240   | 71   |
| 8/ 5         | 270 | 120  | 150   | 83   |
| 8/ 7         | 250 | 130  | 140   | 82   |
| 8/11         | 360 | 200  | 140   | 86   |
| 8/12         | 270 | 190  | 140   | 110  |
| 8/20         | 340 | 120  | 130   | 82   |
| 8/22         | 300 | 120  | 150   | 95   |
| 8/26         | 290 | 120  | 75    | 120  |
| 8/28         | 440 | 94   | 100   | 86   |

TABLE A-12. VOLATILE SUSPENDED SOLIDS  
(mg/l)

| 1974<br>DATE | BAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         | -   | 56   | 57    | 61   |
| 9/ 6         | 260 | 69   | 79    | 56   |
| 9/10         | 250 | 72   | -     | 63   |
| 9/12         | 200 | 58   | 64    | 51   |
| 9/16         | 240 | 70   | 52    | 58   |
| 9/19         | 280 | 87   | 86    | 61   |
| 9/24         | 260 | 93   | 58    | 55   |
| 9/26         | 210 | 110  | 64    | 59   |
| 10/ 1        | 270 | 98   | 67    | 63   |
| 10/ 2        | 140 | 82   | 60    | 58   |
| 10/ 3        | 200 | 85   | 58    | 57   |
| 10/ 4        | 130 | 87   | 63    | 69   |
| 10/ 5        | 210 | 69   | 51    | 55   |
| 10/ 6        | 140 | 82   | 58    | 54   |
| 10/ 7        | 160 | 87   | 66    | 56   |
| 10/ 8        | 110 | 80   | 69    | 62   |
| 10/ 9        | 170 | 240  | 65    | 62   |
| 10/10        | 150 | 80   | 75    | 63   |
| 10/11        | 160 | 85   | 70    | 62   |
| 10/12        | 140 | 79   | 61    | 59   |
| 10/13        | 140 | 81   | 58    | 57   |
| 10/14        | 220 | 83   | 62    | 57   |
| 10/15        | 360 | 86   | 74    | 54   |
| 10/16        | 230 | 87   | 56    | 58   |
| 10/17        | 200 | 92   | 70    | 61   |
| 10/18        | 190 | 83   | 64    | 59   |
| 10/19        | 410 | 140  | 99    | 94   |
| 10/20        | 170 | 100  | 72    | 67   |
| 10/21        | 190 | 89   | 64    | 62   |
| 10/22        | 120 | 85   | 72    | 66   |
| 10/23        | 150 | 80   | 66    | 69   |
| 10/24        | 140 | 78   | 64    | 56   |
| 10/25        | 68  | 82   | 57    | 59   |
| 10/26        | 120 | 120  | 80    | 74   |
| 10/27        | 220 | 88   | 75    | 61   |
| 10/28        | 290 | 96   | 73    | 63   |
| 10/29        | 160 | 110  | 77    | 66   |
| 10/30        | 220 | 110  | 92    | 70   |
| 11/ 7        | 180 | 75   | 71    | 56   |
| 11/ 8        | 180 | 68   | 67    | 54   |
| 11/11        | 310 | 75   | 62    | 53   |



TABLE A-12. VOLATILE SUSPENDED SOLIDS (continued)  
(mg/l)

| <u>1974</u><br><u>DATE</u> | <u>RAH</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|------------|-------------|--------------|-------------|
| 11/13                      | 160        | 71          | 64           | 56          |
| 11/19                      | 180        | 68          | 61           | 56          |
| 11/21                      | 200        | 59          | 57           | 52          |
| 11/25                      | 220        | 54          | 57           | 48          |
| 11/26                      | 120        | 76          | 64           | 55          |
| 12/ 4                      | 210        | 60          | 48           | 48          |
| 12/ 6                      | 240        | 58          | 53           | 42          |
| 12/ 9                      | 220        | 70          | 54           | 42          |
| 12/11                      | 300        | 57          | 45           | 35          |
| 12/17                      | 190        | 63          | 40           | 28          |
| 12/19                      | 180        | 63          | 50           | 32          |
| 12/23                      | 200        | 80          | 47           | 28          |
| 12/27                      | 120        | 70          | 46           | 24          |
| <u>1975</u>                |            |             |              |             |
| 1/ 3                       | 200        | 73          | 22           | 31          |
| 1/ 4                       | 170        | 75          | 50           | 31          |
| 1/ 5                       | 270        | 75          | 54           | 23          |
| 1/ 6                       | 160        | 132         | 52           | 33          |
| 1/ 7                       | 150        | 76          | 52           | 34          |
| 1/ 8                       | 140        | 67          | 45           | 35          |
| 1/ 9                       | 190        | 62          | 57           | 48          |
| 1/10                       | -          | -           | -            | -           |
| 1/11                       | 170        | 73          | 57           | 34          |
| 1/12                       | 150        | 78          | 50           | 34          |
| 1/13                       | 160        | 77          | 56           | 38          |
| 1/14                       | 150        | 80          | 57           | 36          |
| 1/15                       | 230        | 64          | 31           | 31          |
| 1/16                       | 190        | 79          | 50           | 62          |
| 1/17                       | 250        | 87          | 58           | 40          |
| 1/18                       | 150        | 73          | 50           | 40          |
| 1/19                       | 160        | 90          | 54           | 50          |
| 1/20                       | 150        | 65          | 57           | 41          |
| 1/21                       | 200        | 73          | 57           | 26          |
| 1/22                       | 130        | 73          | 58           | 43          |
| 1/23                       | 230        | 66          | 67           | 48          |
| 1/24                       | 230        | 67          | 53           | 40          |
| 1/25                       | 340        | 82          | 32           | 46          |
| 1/26                       | 240        | 83          | 59           | 44          |
| 1/27                       | 270        | 78          | 57           | 48          |
| 1/28                       | 190        | 77          | 54           | 35          |

TABLE A-12. VOLATILE SUSPENDED SOLIDS (continued)  
(mg/l)

| 1975<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 1/29         | 240 | 83   | 67    | 52   |
| 1/30         | 240 | 75   | 58    | 48   |
| 1/31         | 180 | 73   | 54    | 44   |
| 2/ 1         | 150 | 70   | 59    | 51   |
| 2/ 6         | 140 | 78   | 57    | 52   |
| 2/ 8         | 250 | 69   | 52    | 42   |
| 2/11         | 240 | 76   | 48    | 63   |
| 2/14         | 150 | 71   | 66    | 49   |
| 2/16         | 260 | 49   | 60    | 43   |
| 2/19         | 250 | 54   | 37    | 39   |
| 2/24         | 220 | 81   | 46    | 56   |
| 2/27         | 150 | 84   | 45    | 72   |
| 3/ 4         | 380 | 94   | 67    | 50   |
| 3/ 7         | 200 | 98   | 110   | 55   |
| 3/13         | 170 | 110  | 84    | 71   |
| 3/15         | 170 | 100  | 82    | 57   |
| 3/18         | 220 | 98   | 80    | 65   |
| 3/21         | 260 | 110  | 87    | 81   |
| 3/26         | 330 | 83   | 72    | 66   |
| 3/28         | 190 | 81   | 63    | 48   |
| 4/ 1         | 140 | 78   | 63    | 44   |
| 4/ 2         | 250 | 76   | 36    | 32   |
| 4/ 3         | 260 | 78   | 58    | 63   |
| 4/ 4         | 720 | 93   | 32    | 44   |
| 4/ 5         | 250 | 65   | 42    | 43   |
| 4/ 6         | 730 | 54   | 21    | 39   |
| 4/ 7         | 280 | 53   | 47    | 36   |
| 4/ 8         | 240 | 37   | 52    | 43   |
| 4/ 9         | 170 | 56   | 41    | 41   |
| 4/10         | 730 | 50   | 26    | 64   |
| 4/11         | 470 | 52   | 34    | 14   |
| 4/12         | 300 | 68   | 33    | 55   |
| 4/13         | 770 | 58   | 39    | 50   |
| 4/14         | 260 | 50   | 24    | 42   |
| 4/15         | 210 | 64   | 36    | 48   |
| 4/16         | 250 | 49   | 12    | 37   |
| 4/17         | 210 | 67   | 13    | 46   |
| 4/18         | 290 | 52   | 29    | 42   |
| 4/19         | 94  | 55   | 24    | 37   |

TABLE A-12. VOLATILE SUSPENDED SOLIDS (continued)  
(mg/l)

| 1975<br>DATE | RAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/20         | 250 | 84   | 70    | 61   |
| 4/21         | 220 | 82   | 64    | 61   |
| 4/22         | 200 | 230  | 61    | 63   |
| 4/23         | 180 | 57   | 50    | 61   |
| 4/24         | 280 | 88   | 52    | 61   |
| 4/25         | 170 | 88   | 65    | 33   |
| 4/26         | 110 | 110  | 51    | 19   |
| 4/27         | 150 | 63   | 63    | 38   |
| 4/28         | 240 | 69   | 36    | 60   |
| 4/29         | 270 | 77   | 64    | 40   |
| 4/30         | 200 | 59   | 36    | 47   |
| 5/ 6         | 200 | 81   | 70    | 63   |
| 5/ 9         | 210 | 160  | 73    | 64   |
| 5/14         | 230 | 60   | 72    | 77   |
| 5/17         | 92  | 150  | 83    | 84   |
| 5/21         | 78  | 86   | 87    | 68   |
| 5/23         | 250 | 95   | 100   | 70   |
| 5/26         | 50  | 97   | 110   | 77   |
| 5/29         | 160 | 84   | 120   | 74   |
| 6/ 3         | 150 | 120  | 120   | 79   |
| 6/ 6         | 270 | 120  | 180   | 90   |
| 6/ 8         | 96  | 93   | 88    | 88   |
| 6/11         | 240 | 120  | 99    | 69   |
| 6/16         | 200 | 130  | 77    | 71   |
| 6/20         | 300 | 70   | 100   | 61   |
| 6/24         | 200 | 120  | 120   | 79   |
| 6/28         | 250 | 100  | 92    | 80   |
| 7/ 1         | 220 | 190  | 120   | 84   |
| 7/ 2         | 210 | 170  | 110   | 70   |
| 7/ 3         | 110 | 68   | 120   | 61   |
| 7/ 4         | 60  | 130  | 120   | 53   |
| 7/ 5         | 300 | 96   | 130   | 71   |
| 7/ 6         | 86  | 130  | 110   | 59   |
| 7/ 7         | 280 | 140  | 120   | 48   |
| 7/ 8         | 440 | 200  | 110   | 53   |
| 7/ 9         | 230 | 170  | 130   | 61   |
| 7/10         | 230 | 160  | 82    | 54   |
| 7/11         | 260 | 100  | 84    | 55   |
| 7/12         | 180 | 170  | 100   | 75   |
| 7/13         | 230 | 110  | 81    | 75   |
| 7/14         | 240 | 110  | 150   | 65   |

TABLE A-12: VOLATILE SUSPENDED SOLIDS (continued)  
(mg/l)

| 1975<br>DATE | BAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 7/15         | 250 | 120  | 170   | 84   |
| 7/16         | 260 | 160  | 150   | 80   |
| 7/17         | 250 | 220  | 100   | 31   |
| 7/18         | 270 | 130  | 69    | 67   |
| 7/19         | 340 | 130  | 73    | 57   |
| 7/20         | 62  | 160  | 100   | 36   |
| 7/21         | 310 | 170  | 160   | 90   |
| 7/22         | 120 | 220  | 160   | 100  |
| 7/23         | 290 | 170  | 220   | 77   |
| 7/24         | 200 | 140  | 130   | 63   |
| 7/25         | 170 | 130  | 140   | 67   |
| 7/26         | 370 | 160  | 170   | 60   |
| 7/27         | 130 | 98   | 150   | 69   |
| 7/28         | 290 | 130  | 150   | 71   |
| 7/29         | 280 | 180  | 210   | 78   |
| 7/30         | 380 | 130  | 170   | 74   |
| 7/31         | 230 | 110  | 210   | 64   |
| 8/ 5         | 230 | 100  | 130   | 91   |
| 8/ 7         | 200 | 120  | 97    | 72   |
| 8/11         | 240 | 170  | 120   | 92   |
| 8/12         | 250 | 160  | 130   | 100  |
| 8/20         | 280 | 110  | 120   | 81   |
| 8/22         | 220 | 100  | 120   | 87   |
| 8/26         | 250 | 110  | 72    | 85   |
| 8/28         | 290 | 87   | 95    | 84   |

TABLE A-13. PHOSPHORUS  
(mg/l)

| 1974<br>DATE | NAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         | -   | 10.  | 5.4   | 2.8  |
| 9/ 6         | 25. | 10.  | 5.3   | 3.6  |
| 9/10         | 22. | 9.0  | -     | 3.5  |
| 9/12         | 22. | 10.  | 5.8   | 3.2  |
| 9/16         | 13. | 8.5  | 9.8   | 4.5  |
| 9/19         | 29. | 12.  | 5.7   | 3.0  |
| 9/23         | 25. | 12.  | 8.8   | 6.1  |
| 9/26         | 14. | 6.9  | 7.0   | 2.8  |
| 10/ 1        | 18. | 9.5  | 6.5   | 2.6  |
| 10/ 2        | 16. | 10.  | 7.3   | 3.4  |
| 10/ 3        | 13. | 8.4  | 5.4   | 2.9  |
| 10/ 4        | 14. | 8.5  | 12.   | 4.3  |
| 10/ 5        | 19. | 9.0  | 12.   | 5.8  |
| 10/ 6        | 54. | 23.  | 6.8   | 3.8  |
| 10/ 7        | 23. | 16.  | 10.   | 3.0  |
| 10/ 8        | 12. | 7.9  | 5.7   | 3.1  |
| 10/ 9        | 17. | 10.  | 5.7   | 2.7  |
| 10/10        | 12. | 8.5  | 5.5   | 3.0  |
| 10/11        | 16. | 7.0  | 3.7   | 2.8  |
| 10/12        | 14. | 6.7  | 4.5   | 3.0  |
| 10/13        | 11. | 11.  | 5.1   | 3.5  |
| 10/14        | 26. | 10.  | 7.5   | 3.3  |
| 10/15        | 16. | 9.8  | 6.6   | 3.3  |
| 10/16        | 17. | 8.8  | 6.2   | 3.5  |
| 10/17        | 12. | 8.8  | 8.0   | 3.3  |
| 10/18        | 19. | 11.  | 6.3   | 3.4  |
| 10/19        | 11. | 8.5  | 6.7   | 3.8  |
| 10/20        | 13. | 8.8  | 8.0   | 3.8  |
| 10/21        | -   | 11.  | 7.7   | 4.2  |
| 10/22        | 12. | 8.2  | 6.3   | 3.5  |
| 10/23        | 16. | 9.1  | 7.1   | 3.8  |
| 10/24        | 13. | 4.9  | 3.5   | 2.9  |
| 10/25        | 14. | 4.8  | 5.1   | 3.0  |
| 10/26        | 9.4 | 6.0  | 4.2   | 3.0  |
| 10/27        | 8.8 | 7.0  | 4.2   | 2.0  |
| 10/28        | 7.5 | 7.2  | 4.3   | 3.0  |
| 10/29        | 14. | 7.1  | 4.2   | 2.7  |
| 10/30        | 9.4 | 5.5  | 3.7   | 1.9  |
| 11/ 7        | 8.8 | 6.5  | 5.6   | 3.4  |
| 11/ 8        | 14. | 6.8  | 6.0   | 3.7  |

TABLE A-13. PHOSPHORUS (continued)  
(ug/l)

| 1974<br>DATE | EAST | EAST | SOUTH | WEST |
|--------------|------|------|-------|------|
| 11/11        | 13.  | 6.8  | 5.8   | 3.7  |
| 11/13        | 12.  | 6.8  | 5.6   | 3.6  |
| 11/19        | 15.  | 9.4  | 6.2   | 3.8  |
| 11/21        | 16.  | 7.0  | 5.0   | 6.0  |
| 11/25        | 20.  | 7.0  | 4.6   | 4.0  |
| 12/ 4        | 19.  | 8.0  | 5.9   | 4.1  |
| 12/ 6        | 17.  | 7.9  | 6.1   | 3.9  |
| 12/ 9        | 21.  | 8.7  | 11.   | 4.4  |
| 12/11        | 17.  | 9.0  | 7.0   | 4.4  |
| 12/17        | 20.  | 9.1  | 7.7   | 4.4  |
| 12/19        | 17.  | 9.1  | 7.6   | 4.4  |
| 12/23        | 18.  | 9.1  | 7.2   | 4.9  |
| 12/27        | 11.  | 9.2  | 7.8   | 5.0  |
| 1975         |      |      |       |      |
| 1/ 3         | 17.  | 9.9  | 6.0   | 5.4  |
| 1/ 4         | 25.  | 10.  | 8.0   | 4.7  |
| 1/ 5         | 21.  | 10.  | 8.0   | 4.6  |
| 1/ 6         | 17.  | 11.  | 8.5   | 5.4  |
| 1/ 7         | 17.  | 11.  | 8.3   | 5.0  |
| 1/ 8         | 11.  | 11.  | 9.2   | 5.5  |
| 1/ 9         | 12.  | 9.6  | 8.2   | 5.8  |
| 1/10         | 11.  | 9.5  | 8.3   | 5.0  |
| 1/11         | 15.  | 8.8  | 8.3   | 5.0  |
| 1/12         | 7.9  | 8.5  | 8.3   | 5.0  |
| 1/13         | 17.  | 9.7  | 8.3   | 5.0  |
| 1/14         | 12.  | 9.7  | 9.1   | 5.4  |
| 1/15         | 16.  | 11.  | 8.5   | 5.2  |
| 1/16         | 13.  | 9.5  | 8.1   | 4.9  |
| 1/17         | 13.  | 10.  | 12.   | 9.3  |
| 1/18         | 13.  | 11.  | 8.8   | 5.3  |
| 1/19         | 15.  | 9.9  | 8.1   | 5.3  |
| 1/20         | 15.  | 12.  | 9.0   | 5.6  |
| 1/21         | 17.  | 12.  | 8.9   | 5.8  |
| 1/22         | 20.  | 11.  | 8.8   | 5.8  |
| 1/23         | 20.  | 12.  | 9.3   | 5.6  |
| 1/24         | 17.  | 12.  | 8.7   | 6.2  |
| 1/25         | 24.  | 11.  | 8.7   | 5.6  |
| 1/26         | 15.  | 11.  | 8.9   | 5.8  |
| 1/27         | 25.  | 11.  | 9.1   | 5.7  |
| 1/28         | 17.  | 11.  | 9.2   | 6.0  |
| 1/29         | 28.  | 12.  | 9.8   | 6.0  |



TABLE A-13. PHOSPHORUS (continued)  
(mg/l)

| 1975<br>DATE | BAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 1/30         | 25. | 12.  | 9.2   | 6.3  |
| 1/31         | 12. | 11.  | 9.3   | 6.0  |
| 2/ 1         | 9.0 | 13.  | 9.2   | 6.1  |
| 2/ 6         | 19. | 12.  | 9.7   | 6.1  |
| 2/ 8         | 16. | 12.  | 10.   | 6.3  |
| 2/11         | 19. | 12.  | 6.8   | 13.  |
| 2/14         | 23. | 15.  | 10.   | 9.7  |
| 2/16         | 20. | 12.  | 9.6   | 6.4  |
| 2/19         | 72. | 11.  | 9.2   | 5.8  |
| 2/24         | 21. | 11.  | 6.0   | 8.1  |
| 2/27         | 15. | 10.3 | 7.2   | 5.3  |
| 3/ 4         | 13. | 9.8  | 8.3   | 5.9  |
| 3/ 7         | 18. | 11.  | 8.8   | 6.0  |
| 3/13         | 13. | 11.  | 8.6   | 5.1  |
| 3/15         | 11. | 9.2  | 7.6   | 4.5  |
| 3/18         | 26. | 10.  | 7.7   | 4.5  |
| 3/20         | 73. | 9.5  | 7.8   | 4.3  |
| 3/26         | 18. | 6.7  | 5.7   | 4.4  |
| 3/28         | 17. | 7.4  | 7.5   | 3.6  |
| 4/ 1         | 15. | 7.7  | 5.1   | 3.4  |
| 4/ 2         | 15. | 7.1  | 4.7   | 2.8  |
| 4/ 3         | 14. | 6.8  | 5.3   | 3.2  |
| 4/ 4         | 16. | 7.0  | 4.6   | 2.7  |
| 4/ 5         | 17. | 7.6  | 4.4   | 2.7  |
| 4/ 6         | 16. | 7.3  | 5.2   | 2.7  |
| 4/ 7         | 13. | 6.9  | 4.6   | 2.7  |
| 4/ 8         | 13. | 7.0  | 5.5   | 2.8  |
| 4/ 9         | 19. | 6.2  | 3.8   | 1.9  |
| 4/10         | 11. | 4.8  | 3.3   | 1.9  |
| 4/11         | 14. | 5.5  | 2.2   | 2.9  |
| 4/12         | 8.5 | 3.8  | 3.2   | 1.8  |
| 4/13         | 5.5 | 5.0  | 3.5   | 1.6  |
| 4/14         | 4.6 | 5.5  | 4.5   | 2.8  |
| 4/15         | 23. | 10.  | 6.3   | 3.2  |
| 4/16         | 14. | 11.  | 7.7   | 2.7  |
| 4/17         | 20. | 10.  | 6.0   | 2.9  |
| 4/18         | 12. | 9.0  | 5.0   | 3.3  |
| 4/19         | 9.0 | 11.  | 6.0   | 2.6  |
| 4/20         | 11. | 15.  | 8.5   | 3.0  |
| 4/21         | 17. | 10.  | 6.0   | 2.5  |
| 4/22         | 12. | 13.  | 5.9   | 2.3  |

TABLE A-13. PHOSPHORUS (continued)  
(mg/l)

| 1975<br>DATE | BAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 4/23         | 10. | 9.9  | 5.8   | 2.6  |
| 4/24         | 13. | 9.7  | 5.4   | 2.0  |
| 4/25         | 13. | 11.  | 5.2   | 2.4  |
| 4/26         | 14. | 9.6  | 5.1   | 2.2  |
| 4/27         | 14. | 7.2  | 4.6   | 2.0  |
| 4/28         | 13. | 11.  | 6.4   | 2.5  |
| 4/29         | 14. | 11.  | 5.8   | 2.8  |
| 4/30         | 14. | 9.2  | 5.3   | 2.6  |
| 5/ 6         | 14. | 12.  | 5.8   | 2.6  |
| 5/ 9         | 19. | 12.  | 4.8   | 2.4  |
| 5/14         | 31. | 12.  | 6.5   | 3.2  |
| 5/17         | 8.0 | 14.  | 6.5   | 2.6  |
| 5/21         | 6.5 | 12.  | 7.5   | 2.9  |
| 5/23         | 19. | 12.  | 7.7   | 3.0  |
| 5/26         | 4.4 | 9.7  | 5.8   | 3.9  |
| 5/29         | 12. | 12.  | 8.7   | 3.7  |
| 6/ 3         | 13. | 11.  | 7.2   | 3.5  |
| 6/ 6         | 9.5 | 7.8  | 6.7   | 2.8  |
| 6/ 8         | 9.0 | 9.8  | 5.3   | 3.1  |
| 6/11         | 20. | 11.  | 7.2   | 3.6  |
| 6/16         | 20. | 9.4  | 5.0   | 3.2  |
| 6/20         | 24. | 7.6  | 6.0   | 3.3  |
| 6/24         | 21. | 5.7  | 4.3   | 3.2  |
| 6/28         | 23. | 4.4  | 3.3   | 2.7  |
| 7/ 1         | 19. | 5.1  | 4.4   | 1.8  |
| 7/ 2         | 17. | 4.6  | 4.5   | 2.1  |
| 7/ 3         | 20. | 4.6  | 3.3   | 1.6  |
| 7/ 4         | 7.2 | 3.9  | 3.4   | 1.4  |
| 7/ 5         | 20. | 6.2  | 4.2   | 1.9  |
| 7/ 6         | 10. | 6.2  | 4.1   | 2.0  |
| 7/ 7         | 24. | 7.1  | 4.9   | 1.9  |
| 7/ 8         | 25. | 5.8  | 3.6   | 1.8  |
| 7/ 9         | 31. | 6.3  | 0.0   | 1.8  |
| 7/10         | 20. | 7.5  | 4.3   | 2.2  |
| 7/11         | 15. | 8.1  | 4.3   | 2.8  |
| 7/12         | 11. | 8.9  | 5.5   | 3.9  |
| 7/13         | 21. | 11.  | 6.8   | 4.5  |
| 7/14         | 18. | 11.  | 7.9   | 0.3  |
| 7/15         | 18. | 12.  | 7.4   | 3.4  |
| 7/16         | 17. | 11.  | 6.2   | 3.5  |

TABLE A-13. PHOSPHORUS (continued)  
(mg/l)

| 1975<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 7/17         | 14. | 10.  | 5.1   | 2.7  |
| 7/18         | 22. | 11.  | 11.   | 2.0  |
| 7/19         | 18. | 11.  | 6.3   | 2.1  |
| 7/20         | 5.5 | 10.  | 6.2   | 2.2  |
| 7/21         | 17. | 12.  | 5.3   | 2.4  |
| 7/22         | 18. | 12.  | 6.3   | 2.9  |
| 7/23         | 21. | 12.  | 5.6   | 2.7  |
| 7/24         | 14. | 12.  | 5.6   | 2.2  |
| 7/25         | 23. | 11.  | 6.5   | 3.4  |
| 7/26         | 21. | 11.  | 6.8   | 2.5  |
| 7/27         | 8.6 | 10.  | 6.8   | 2.3  |
| 7/28         | 22. | 9.8  | 6.1   | 2.0  |
| 7/29         | 21. | 7.9  | 8.4   | 2.5  |
| 7/30         | 21. | 7.5  | 6.1   | 2.3  |
| 7/31         | 16. | 7.3  | 6.3   | 2.1  |
| 8/ 5         | 25. | 6.3  | 3.8   | 1.8  |
| 8/ 7         | 16. | 9.6  | 5.5   | 2.5  |
| 8/11         | 13. | 12.  | 5.3   | 2.4  |
| 8/12         | 12. | 11.  | 4.8   | 2.1  |
| 8/20         | 20. | 10.  | 5.4   | 2.6  |
| 8/22         | 14. | 11.  | 5.1   | 2.5  |
| 8/26         | 17. | 10.  | 4.9   | 3.8  |
| 8/28         | 26. | 12.  | 5.6   | 3.0  |

TABLE A-14. TOTAL FELDHAUS NITROGEN  
(mg/l)

| 1974<br>DATE | EAST | EAST | SOUTH | WEST |
|--------------|------|------|-------|------|
| 9/ 4         | -    | 10.  | 10.   | 10.  |
| 9/ 6         | 92.  | 20.  | 14.   | 12.  |
| 9/10         | 31.  | 10.  | -     | 10.  |
| 9/12         | 44.  | 14.  | 9.0   | 9.0  |
| 9/16         | 54.  | 17.  | 10.   | 10.  |
| 9/19         | 34.  | 14.  | 12.   | 8.0  |
| 9/24         | 41.  | 18.  | 9.0   | 1.0  |
| 9/26         | 38.  | 6.0  | 3.0   | 1.5  |
| 10/ 1        | 38.  | 8.0  | 7.0   | 4.5  |
| 10/ 2        | 28.  | 14.  | 10.   | 12.  |
| 10/ 3        | 95.  | 19.  | 12.   | 12.  |
| 10/ 4        | 50.  | 19.  | 12.   | 11.  |
| 10/ 5        | 49.  | 13.  | 9.5   | 8.8  |
| 10/ 6        | 33.  | 16.  | 11.   | 8.5  |
| 10/ 7        | 42.  | 14.  | 11.   | 8.9  |
| 10/ 8        | 28.  | 18.  | 10.   | 15.  |
| 10/ 9        | 40.  | 41.  | 10.   | 8.8  |
| 10/10        | 50.  | 14.  | 11.   | 10.  |
| 10/11        | 56.  | 16.  | 12.   | 9.3  |
| 10/12        | 41.  | 13.  | 9.8   | 8.0  |
| 10/13        | 29.  | 13.  | 12.   | 9.6  |
| 10/14        | 51.  | 13.  | 10.   | 8.3  |
| 10/15        | 37.  | 12.  | 11.   | 8.2  |
| 10/16        | 42.  | 18.  | 13.   | 8.0  |
| 10/17        | 54.  | 11.  | 8.0   | 6.1  |
| 10/18        | 36.  | 15.  | 7.8   | 6.0  |
| 10/19        | 60.  | 15.  | 11.   | 8.0  |
| 10/20        | 49.  | 23.  | 12.   | 8.5  |
| 10/21        | 40.  | 11.  | 9.4   | 9.5  |
| 10/22        | 21.  | 12.  | 8.6   | 7.6  |
| 10/23        | 24.  | 27.  | 11.   | 11.  |
| 10/24        | 39.  | 19.  | 13.   | 7.3  |
| 10/25        | 16.  | 19.  | 14.   | 12.  |
| 10/26        | 24.  | 16.  | 12.   | 11.  |
| 10/27        | 65.  | 22.  | 11.   | 9.3  |
| 10/28        | 80.  | 19.  | 13.   | 9.6  |
| 10/29        | 35.  | 28.  | 13.   | 9.7  |
| 10/30        | 36.  | 15.  | 13.   | 12.  |

TABLE A-14. TOTAL, KJELDAHL NITROGEN (continued)  
(mg/l)

| 1974<br>DATE | RAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 11/ 7        | 68. | 24.  | 18.   | 15.  |
| 11/ 8        | 62. | 22.  | 16.   | 12.  |
| 11/11        | 56. | 22.  | 15.   | 13.  |
| 11/13        | 65. | 9.9  | 8.6   | 7.1  |
| 11/19        | 26. | 16.  | 6.6   | 7.1  |
| 11/21        | 33. | 12.  | 5.3   | 6.2  |
| 11/25        | 70. | 17.  | 6.4   | 7.3  |
| 11/26        | 66. | 20.  | 9.3   | 6.0  |
| 12/ 4        | -   | 26.  | 9.0   | 11.  |
| 12/ 6        | 44. | 26.  | 13.   | 6.6  |
| 12/ 9        | 42. | 15.  | 8.8   | 6.4  |
| 12/11        | 26. | 20.  | 11.   | 7.0  |
| 12/17        | 44. | 13.  | 6.2   | 3.5  |
| 12/19        | 42. | 10.  | 12.   | 5.5  |
| 12/23        | 44. | 23.  | 15.   | 7.0  |
| 12/27        | 84. | 24.  | 18.   | 9.2  |
| 1975         |     |      |       |      |
| 1/ 3         | 77. | 15.  | 16.   | 14.  |
| 1/ 4         | 50. | 28.  | 19.   | 10.  |
| 1/ 5         | 55. | 30.  | 19.   | 8.1  |
| 1/ 6         | 37. | 28.  | 15.   | 6.6  |
| 1/ 7         | 30. | 21.  | 14.   | 7.0  |
| 1/ 8         | 37. | 22.  | 16.   | 7.7  |
| 1/ 9         | 86. | 29.  | 18.   | 10.  |
| 1/10         | 70. | 31.  | 21.   | 9.3  |
| 1/11         | 70. | 13.  | 15.   | 7.7  |
| 1/12         | 31. | 19.  | 13.   | 6.2  |
| 1/13         | 75. | 19.  | 13.   | 7.0  |
| 1/14         | 35. | 18.  | 13.   | 7.7  |
| 1/15         | 46. | 21.  | 13.   | 6.6  |
| 1/16         | 32. | 18.  | 11.   | 6.6  |
| 1/17         | 19. | 8.8  | 7.2   | 3.4  |
| 1/18         | 86. | 22.  | 17.   | 7.3  |
| 1/19         | 40. | 22.  | 18.   | 8.6  |
| 1/20         | 35. | 22.  | 18.   | 7.7  |
| 1/21         | 44. | 26.  | 20.   | 10.  |
| 1/22         | 29. | 13.  | 18.   | 8.4  |
| 1/23         | 18. | 22.  | 17.   | 8.8  |
| 1/24         | 37. | 22.  | 12.   | 7.2  |

TABLE A-14. TOTAL KJELDAHL NITROGEN (continued)  
(mg/l)

| 1975<br>DATE | NAM  | EAST | SOUTH | WEST |
|--------------|------|------|-------|------|
| 1/25         | 77.  | 22.  | 17.   | 8.4  |
| 1/26         | 81.  | 22.  | 15.   | 7.9  |
| 1/27         | 59.  | 24.  | 17.   | 8.8  |
| 1/28         | 35.  | 17.  | 18.   | 8.8  |
| 1/29         | 35.  | 24.  | 19.   | 9.0  |
| 1/30         | 46.  | 29.  | 22.   | 11.  |
| 1/31         | 44.  | 26.  | 19.   | 8.8  |
| 2/ 1         | 59.  | 22.  | 17.   | 8.4  |
| 2/ 6         | 53.  | 37.  | 29.   | 11.  |
| 2/ 8         | 64.  | 22.  | 20.   | 8.1  |
| 2/11         | 75.  | 24.  | 20.   | 9.6  |
| 2/14         | 73.  | 25.  | 20.   | 10.  |
| 2/16         | 66.  | 23.  | 9.6   | 9.6  |
| 2/19         | 66.  | 24.  | 17.   | 8.8  |
| 2/24         | 60.  | 29.  | 18.   | 10.  |
| 2/27         | 44.  | 20.  | 12.   | 5.7  |
| 3/ 4         | 95.  | 33.  | 20.   | 15.  |
| 3/ 7         | 59.  | 33.  | 21.   | 12.  |
| 3/13         | 66.  | 25.  | 17.   | 9.8  |
| 3/15         | 57.  | 18.  | 13.   | 7.7  |
| 3/18         | 29.  | 15.  | 12.   | 7.4  |
| 3/20         | 31.  | 16.  | 13.   | 7.7  |
| 3/26         | 28.  | 15.  | 11.   | 7.0  |
| 3/28         | 40.  | 16.  | 10.   | 6.4  |
| 4/ 1         | 42.  | 26.  | 9.8   | 7.9  |
| 4/ 2         | 44.  | 22.  | 17.   | 9.7  |
| 4/ 3         | 44.  | 18.  | 14.   | 9.2  |
| 4/ 4         | 68.  | 24.  | 13.   | 9.2  |
| 4/ 5         | 35.  | 13.  | 5.5   | 6.1  |
| 4/ 6         | 48.  | 22.  | 16.   | 7.9  |
| 4/ 7         | 92.  | 26.  | 15.   | 9.6  |
| 4/ 8         | 44.  | 20.  | 12.   | 8.8  |
| 4/ 9         | 31.  | 16.  | 4.8   | 10.  |
| 4/10         | 57.  | 48.  | 31.   | 15.  |
| 4/11         | 68.  | 29.  | 13.   | 18.  |
| 4/12         | 77.  | 29.  | 18.   | 17.  |
| 4/13         | 130. | 59.  | 29.   | 14.  |
| 4/14         | 68.  | 24.  | 19.   | 9.7  |
| 4/15         | 40.  | 24.  | 15.   | 11.  |



TABLE A-14: TOTAL KjELDAHL NITROGEN (continued)  
(mg/l)

| 1975<br>DATE | RAM  | EAST | SOUTH | WEST |
|--------------|------|------|-------|------|
| 4/16         | 88.  | 33.  | 18.   | 11.  |
| 4/17         | 64.  | 26.  | 21.   | 14.  |
| 4/18         | 44.  | 23.  | 19.   | 12.  |
| 4/19         | 33.  | 40.  | 24.   | 13.  |
| 4/20         | 77.  | 37.  | 24.   | 14.  |
| 4/21         | 101. | 33.  | 20.   | 11.  |
| 4/22         | 79.  | 51.  | 18.   | 11.  |
| 4/23         | 66.  | 23.  | 15.   | 11.  |
| 4/24         | 30.  | 29.  | 13.   | 8.8  |
| 4/25         | 79.  | 51.  | 24.   | 17.  |
| 4/26         | 39.  | 29.  | 18.   | 11.  |
| 4/27         | 73.  | 28.  | 17.   | 11.  |
| 4/28         | 101. | 46.  | 31.   | 18.  |
| 4/29         | 79.  | 33.  | 20.   | 12.  |
| 4/30         | 88.  | 29.  | 20.   | 12.  |
| 5/ 6         | 79.  | 28.  | 19.   | 10.  |
| 5/ 9         | 42.  | 44.  | 13.   | 8.8  |
| 5/14         | 44.  | 21.  | 14.   | 8.8  |
| 5/17         | 8.8  | 37.  | 13.   | 4.8  |
| 5/21         | 17.  | 28.  | 13.   | 3.7  |
| 5/23         | 73.  | 19.  | 14.   | 3.0  |
| 5/26         | 18.  | 20.  | 18.   | 11.  |
| 5/29         | 64.  | 23.  | 13.   | 7.3  |
| 6/ 3         | 36.  | 26.  | 14.   | 11.  |
| 6/ 6         | 20.  | 9.2  | 8.1   | 6.2  |
| 6/ 8         | 16.  | 9.0  | 6.2   | 6.8  |
| 6/11         | 17.  | 9.2  | 7.3   | 3.9  |
| 6/16         | 62.  | 18.  | 11.   | 8.8  |
| 6/20         | 48.  | 9.2  | 8.1   | 3.3  |
| 6/24         | 28.  | 10.  | 8.6   | 3.9  |
| 6/28         | 35.  | 9.2  | 8.1   | 7.3  |
| 7/ 1         | 47.  | 13.  | 11.   | 3.3  |
| 7/ 2         | 32.  | 13.  | 9.7   | 3.1  |
| 7/ 3         | 62.  | 12.  | 11.   | 4.4  |
| 7/ 4         | 14.  | 9.9  | 11.   | 3.7  |
| 7/ 5         | 32.  | 9.7  | 11.   | 6.6  |
| 7/ 6         | 38.  | 13.  | 8.6   | 4.2  |
| 7/ 7         | 66.  | 13.  | 13.   | 6.3  |
| 7/ 8         | 38.  | 14.  | 10.   | 3.0  |
| 7/ 9         | 31.  | 13.  | 9.9   | 4.8  |

TABLE A-14. TOTAL KJELDAHL NITROGEN (continued)  
(mg/l)

| <u>1975</u><br><u>DATE</u> | <u>RAW</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|------------|-------------|--------------|-------------|
| 7/10                       | 48.        | 13.         | 7.8          | 8.9         |
| 7/11                       | 68.        | 18.         | 11.          | 8.8         |
| 7/12                       | 42.        | 21.         | 12.          | 10.         |
| 7/13                       | 63.        | 21.         | 11.          | 11.         |
| 7/14                       | 62.        | 21.         | 10.          | 7.5         |
| 7/15                       | 73.        | 18.         | 10.          | 6.8         |
| 7/16                       | 84.        | 20.         | 12.          | 6.6         |
| 7/17                       | 158.       | 39.         | 14.          | 19.         |
| 7/18                       | 100.       | 32.         | 16.          | 16.         |
| 7/19                       | 119.       | 28.         | 16.          | 12.         |
| 7/20                       | 38.        | 40.         | 18.          | 11.         |
| 7/21                       | 85.        | 40.         | 17.          | 14.         |
| 7/22                       | 67.        | 31.         | 23.          | 12.         |
| 7/23                       | 36.        | 26.         | 21.          | 9.9         |
| 7/24                       | 92.        | 28.         | 20.          | 9.9         |
| 7/25                       | 73.        | 28.         | 16.          | 12.         |
| 7/26                       | 70.        | 31.         | 22.          | 10.         |
| 7/27                       | 41.        | 17.         | 17.          | 10.         |
| 7/28                       | 75.        | 21.         | 21.          | 11.         |
| 7/29                       | 64.        | 24.         | 25.          | 9.2         |
| 7/30                       | 75.        | 22.         | 21.          | 9.5         |
| 8/ 3                       | 32.        | 16.         | 12.          | 8.4         |
| 8/ 7                       | 42.        | 22.         | 14.          | 7.5         |
| 8/11                       | 65.        | 24.         | 15.          | 9.7         |
| 8/12                       | 58.        | 24.         | 15.          | 11.         |
| 8/20                       | 69.        | 22.         | 16.          | 10.         |
| 8/22                       | 40.        | 22.         | 16.          | 7.9         |
| 8/26                       | 78.        | 33.         | 22.          | 12.         |
| 8/28                       | 98.        | 29.         | 23.          | 10.         |

TABLE A-15. AMMONIA NITROGEN  
(mg/l)

| 1978<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 9/ 4         | -   | 8.0  | 1.6   | 0.3  |
| 9/ 6         | 90. | 6.2  | 3.4   | 0.4  |
| 9/10         | 12. | 6.2  | -     | 1.0  |
| 9/12         | 10. | 12.0 | 3.0   | 0.6  |
| 9/16         | 38. | 7.5  | 3.0   | 0.6  |
| 9/19         | 13. | 1.6  | 0.4   | 0.2  |
| 9/23         | 9.0 | 2.8  | 1.7   | 0.2  |
| 9/26         | 11. | 4.2  | 1.5   | 0.0  |
| 10/ 1        | 25. | 7.0  | 4.2   | 0.6  |
| 10/ 2        | 18. | 7.5  | 4.4   | 0.6  |
| 10/ 3        | 60. | 8.5  | 4.8   | 0.6  |
| 10/ 4        | 29. | 7.0  | 3.9   | 0.1  |
| 10/ 5        | 32. | 7.5  | 4.0   | 0.1  |
| 10/ 6        | 17. | 8.0  | 4.5   | 0.1  |
| 10/ 7        | 15. | 5.8  | 3.1   | 0.1  |
| 10/ 8        | 10. | 5.2  | 3.1   | 0.1  |
| 10/ 9        | 15. | 5.3  | 2.7   | 0.2  |
| 10/10        | 14. | 10.  | 5.2   | 0.1  |
| 10/11        | 26. | 8.8  | 3.8   | 0.2  |
| 10/12        | 28. | 8.7  | 4.0   | 0.1  |
| 10/13        | 20. | 8.2  | 3.9   | 0.0  |
| 10/14        | 16. | 9.5  | 4.6   | 0.3  |
| 10/15        | 22. | 8.8  | 4.4   | 0.5  |
| 10/16        | 23. | 8.2  | 4.8   | 0.4  |
| 10/17        | 16. | 6.8  | 3.6   | 0.2  |
| 10/18        | 24. | 7.8  | 3.9   | 0.2  |
| 10/19        | 38. | 6.6  | 3.4   | 0.2  |
| 10/20        | 46. | 7.2  | 4.0   | 0.2  |
| 10/21        | 30. | 6.6  | 3.6   | 0.6  |
| 10/22        | 14. | 7.8  | 4.4   | 0.3  |
| 10/23        | 7.5 | 0.9  | 4.2   | 0.2  |
| 10/24        | 17. | 7.5  | 4.9   | 0.3  |
| 10/25        | 6.3 | 7.2  | 4.6   | 0.4  |
| 10/26        | 6.0 | 6.4  | 3.4   | 0.2  |
| 10/27        | 58. | 7.8  | 3.6   | 0.3  |
| 10/28        | 70. | 9.0  | 3.6   | 0.4  |
| 10/29        | 24. | 11.  | 3.4   | 0.8  |
| 10/30        | 21. | 9.3  | 3.8   | 0.7  |

TABLE A-15. AMMONIA NITROGEN (continued)  
(mg/l)

| 1974<br>DATE | RAW | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 11/ 7        | 38. | 10.  | 0.4   | 0.1  |
| 11/ 8        | 27. | 12.  | 0.2   | 0.1  |
| 11/11        | 24. | 13.  | 1.0   | 0.1  |
| 11/13        | 19. | 13.  | 0.6   | 0.1  |
| 11/19        | 22. | 15.  | 1.6   | 0.2  |
| 11/21        | 27. | 13.  | 1.0   | 0.1  |
| 11/25        | 32. | 14.  | 1.4   | 0.1  |
| 11/26        | 30. | 14.  | 1.7   | 0.1  |
| 12/ 4        | 38. | 20.  | 5.4   | 1.1  |
| 12/ 6        | 33. | 20.  | 5.5   | 1.0  |
| 12/ 9        | 21. | 15.  | 5.7   | 1.1  |
| 12/11        | 18. | 14.  | 6.0   | 0.9  |
| 12/15        | 38. | 13.  | 5.2   | 1.1  |
| 12/19        | 28. | 11.  | 5.8   | 0.8  |
| 12/23        | 24. | 12.  | 5.2   | 0.6  |
| 12/27        | 29. | 14.  | 8.3   | 1.1  |
| 1975         |     |      |       |      |
| 1/ 3         | 22. | 14.  | 6.0   | 1.4  |
| 1/ 4         | 13. | 12.  | 7.5   | 1.1  |
| 1/ 5         | 20. | 11.  | 7.1   | 0.9  |
| 1/ 6         | 16. | 10.  | 8.1   | 1.7  |
| 1/ 7         | 20. | 15.  | 10.   | 1.7  |
| 1/ 8         | 38. | 14.  | 9.4   | 1.3  |
| 1/ 9         | 29. | 14.  | 9.8   | 3.1  |
| 1/10         | 21. | 13.  | 2.2   | 2.0  |
| 1/11         | 26. | 16.  | 9.2   | 1.9  |
| 1/12         | 19. | 14.  | 10.   | 1.6  |
| 1/13         | 24. | 14.  | 11.   | 3.0  |
| 1/14         | 22. | 13.  | 9.5   | 2.5  |
| 1/15         | 27. | 13.  | 10.   | 2.6  |
| 1/16         | 23. | 12.  | 10.   | 2.4  |
| 1/17         | 19. | 10.  | 8.0   | 3.0  |
| 1/18         | 80. | 23.  | 15.   | 3.1  |
| 1/19         | 41. | 20.  | 14.   | 2.9  |
| 1/20         | 30. | 17.  | 15.   | 3.0  |
| 1/21         | 30. | 17.  | 14.   | 3.5  |
| 1/22         | 20. | 16.  | 14.   | 2.8  |
| 1/23         | 32. | 18.  | 13.   | 2.7  |
| 1/24         | 32. | 19.  | 14.   | 3.3  |
| 1/25         | 46. | 19.  | 15.   | 3.2  |
| 1/26         | 48. | 18.  | 15.   | 3.1  |

TABLE A-15. AMMONIA NITROGEN (continued)  
(mg/l)

| 1975<br>DATE | RAH | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 1/27         | 35. | 20.  | 17.   | 3.2  |
| 1/28         | 40. | 19.  | 16.   | 2.8  |
| 1/29         | 28. | 19.  | 15.   | 3.0  |
| 1/30         | 35. | 19.  | 15.   | 3.1  |
| 1/31         | 30. | 18.  | 16.   | 3.1  |
| 2/ 1         | 56. | 18.  | 16.   | 3.6  |
| 2/ 6         | 56. | 18.  | 16.   | 3.0  |
| 2/ 8         | 60. | 20.  | 15.   | 4.0  |
| 2/11         | 37. | 19.  | 15.   | 4.0  |
| 2/14         | 28. | 20.  | 16.   | 4.2  |
| 2/16         | 66. | 20.  | 17.   | 4.4  |
| 3/13         | 30. | 20.  | 17.   | 3.6  |
| 2/26         | 13. | 9.5  | 7.0   | -    |
| 2/27         | 15. | 8.0  | 6.0   | 1.5  |
| 3/ 4         | 23. | 11.  | 8.8   | 4.4  |
| 3/ 7         | 23. | 10.  | 8.0   | 3.1  |
| 3/13         | 23. | 7.0  | 5.4   | 2.1  |
| 3/15         | 16. | 7.0  | 5.4   | 2.0  |
| 3/18         | 20. | 6.9  | 5.4   | 1.7  |
| 3/20         | 16. | 6.2  | 5.0   | 1.7  |
| 3/26         | 13. | 6.0  | 3.7   | -    |
| 3/28         | 27. | 7.2  | 4.6   | -    |
| 4/ 1         | 10. | 6.5  | 4.8   | -    |
| 4/ 2         | 16. | 6.8  | 5.0   | -    |
| 4/ 3         | 19. | 8.6  | 6.8   | 1.2  |
| 4/ 4         | 13. | 9.0  | 6.8   | 1.1  |
| 4/ 5         | 32. | 9.8  | 7.8   | 1.1  |
| 4/ 6         | 27. | 9.8  | 7.1   | 1.1  |
| 4/ 7         | 30. | 8.0  | 5.7   | 2.0  |
| 4/ 8         | 18. | 8.0  | 6.0   | 1.0  |
| 4/ 9         | 15. | 10.  | 7.0   | 3.0  |
| 4/10         | 25. | 10.  | 7.0   | 1.3  |
| 4/11         | 20. | 11.  | 7.0   | 1.6  |
| 4/12         | 37. | 13.  | 7.9   | 1.7  |
| 4/13         | 26. | 11.  | 7.0   | 1.1  |
| 4/14         | 32. | 12.  | 7.9   | 1.7  |
| 4/15         | 16. | 11.  | 7.0   | 2.0  |
| 4/16         | 40. | 12.  | 7.2   | 1.5  |
| 4/17         | 38. | 12.  | 7.0   | 1.6  |
| 4/18         | 16. | 12.  | 6.5   | 1.6  |

TABLE A-15. AMMONIA NITROGEN (continued)  
(mg/l)

| 1975<br>DATE | RAW  | EAST | SOUTH | VERT |
|--------------|------|------|-------|------|
| 4/19         | 14.  | 12.  | 7.8   | 2.4  |
| 4/20         | 13.  | 11.  | 6.0   | 1.8  |
| 4/21         | 41.  | 12.  | 6.3   | 1.9  |
| 4/22         | 14.  | 9.4  | 5.6   | 1.5  |
| 4/23         | 35.  | 10.  | 6.0   | 2.0  |
| 4/24         | 30.  | 11.  | 5.6   | 1.7  |
| 4/25         | 16.  | 12.  | 6.4   | 2.0  |
| 4/26         | 16.  | 11.  | 6.4   | 1.7  |
| 4/27         | 28.  | 11.  | 5.6   | 2.0  |
| 4/28         | 26.  | 8.2  | 5.9   | 2.2  |
| 4/29         | 12.  | 11.  | 7.2   | 2.2  |
| 4/30         | 16.  | 11.  | 7.6   | 2.0  |
| 5/ 6         | 40.  | 11.  | 6.8   | 1.8  |
| 5/ 9         | 22.  | 8.7  | 5.2   | 1.5  |
| 5/14         | 13.  | 12.  | 6.8   | 1.2  |
| 5/17         | 8.1  | 6.7  | 3.5   | 0.2  |
| 5/21         | 3.8  | 7.4  | 3.9   | 0.5  |
| 5/23         | 22.  | 9.0  | 2.5   | 0.8  |
| 5/26         | 7.2  | 8.4  | 1.7   | 0.7  |
| 5/29         | 21.  | 7.6  | 0.6   | 0.4  |
| 6/ 3         | 19.0 | 6.4  | 0.3   | 0.0  |
| 6/ 6         | 14.  | 4.9  | 0.3   | 0.0  |
| 6/ 8         | 8.5  | 2.6  | 0.5   | 0.5  |
| 6/11         | 1.4  | 3.2  | 1.5   | 0.4  |
| 6/16         | 22.  | 3.0  | 1.0   | 0.4  |
| 6/20         | 29.  | 3.2  | 0.4   | 0.2  |
| 6/24         | 18.  | 1.9  | 0.2   | 0.2  |
| 6/28         | 10.  | 0.4  | 0.3   | 0.3  |
| 7/ 1         | 24.  | 0.3  | 0.1   | 0.2  |
| 7/ 2         | 16.  | 0.2  | 0.4   | 0.2  |
| 7/ 3         | 24.  | 0.3  | 0.1   | 0.1  |
| 7/ 4         | 9.4  | 0.1  | 0.1   | 0.0  |
| 7/ 5         | 29.  | 1.0  | 0.0   | 0.0  |
| 7/ 6         | 24.  | 0.0  | 0.1   | 0.1  |
| 7/ 7         | 20.  | 0.6  | 0.1   | 0.1  |
| 7/ 8         | 18.  | 0.5  | 0.0   | 0.0  |
| 7/ 9         | 27.  | 0.4  | 0.0   | 0.0  |
| 7/10         | 35.  | 0.5  | 0.1   | 0.1  |
| 7/11         | 37.  | 3.8  | 0.1   | 0.1  |
| 7/12         | 27.0 | 2.2  | 0.6   | 0.2  |



TABLE A-13. AMMONIA NITROGEN (continued)  
(mg/l)

| 1975<br>DATE | NAM | EAST | SOUTH | WEST |
|--------------|-----|------|-------|------|
| 7/13         | 16. | 6.4  | 3.6   | 2.3  |
| 7/14         | 21. | 5.6  | 2.6   | 0.8  |
| 7/15         | 27. | 5.2  | 0.3   | 0.0  |
| 7/16         | 23. | 4.7  | 0.9   | 0.1  |
| 7/17         | 27. | 3.8  | 1.1   | 0.1  |
| 7/18         | 18. | 5.0  | 1.9   | 0.1  |
| 7/19         | 25. | 5.5  | 2.0   | 0.1  |
| 7/20         | 10. | 4.5  | 1.2   | 0.1  |
| 7/21         | 33. | 2.4  | 0.6   | 1.1  |
| 7/22         | 27. | 5.3  | 0.7   | 0.4  |
| 7/23         | 25. | 3.9  | 0.6   | 0.1  |
| 7/24         | 29. | 6.0  | 0.3   | 0.1  |
| 7/25         | 28. | 8.3  | 1.1   | 0.5  |
| 7/26         | 13. | 6.3  | 0.5   | 0.1  |
| 7/27         | 29. | 4.5  | 0.4   | 0.2  |
| 7/28         | 16. | 5.1  | 0.5   | 0.1  |
| 7/29         | 37. | 3.6  | 0.3   | 0.1  |
| 7/30         | 38. | 3.4  | 0.4   | 0.1  |
| 8/ 5         | 10. | 2.3  | 0.1   | 0.1  |
| 8/ 7         | 13. | 5.1  | 1.6   | 0.1  |
| 8/11         | 16. | 3.8  | 0.2   | 0.1  |
| 8/12         | 17. | 4.4  | 0.7   | 0.0  |
| 8/20         | 30. | 6.5  | 1.0   | 0.2  |
| 8/22         | 14. | 5.2  | 0.4   | 0.2  |
| 8/16         | 30. | 7.8  | 4.5   | 0.5  |
| 8/28         | 28. | 7.4  | 3.9   | 0.4  |

TABLE A-16. NITRITE NITROGEN  
(mg/l)

| 1974<br>DATE | EAST | SOUTH | WEST |
|--------------|------|-------|------|
| 9/ 4         | 0.1  | 0.3   | 0.1  |
| 9/ 6         | 0.0  | 0.3   | 0.0  |
| 9/10         | 0.0  | -     | 0.0  |
| 9/12         | 0.0  | 0.1   | 0.1  |
| 9/16         | 0.0  | 0.1   | 0.1  |
| 9/19         | 0.0  | 0.2   | 0.0  |
| 9/24         | 0.0  | 0.0   | 0.0  |
| 9/26         | 0.0  | 0.0   | 0.0  |
| 10/ 1        | 0.1  | 0.1   | 0.   |
| 10/ 2        | 0.   | 0.2   | 0.   |
| 10/ 3        | 0.   | 0.1   | 0.   |
| 10/ 4        | 0.   | 0.1   | 0.   |
| 10/ 5        | 0.   | 0.1   | 0.   |
| 10/ 6        | 0.   | 0.1   | 0.   |
| 10/ 7        | 0.3  | 0.2   | 0.   |
| 10/ 8        | 1.2  | 0.2   | 0.2  |
| 10/ 9        | 0.   | 0.2   | 0.   |
| 10/10        | 0.1  | 0.2   | 0.   |
| 10/11        | 0.   | 0.3   | 0.   |
| 10/12        | 0.   | 0.2   | 0.   |
| 10/13        | 0.   | 0.2   | 0.1  |
| 10/14        | 0.1  | 0.2   | 0.1  |
| 10/15        | 0.1  | 0.1   | 0.1  |
| 10/16        | 0.2  | 0.1   | 0.1  |
| 10/17        | 0.4  | 0.2   | 0.4  |
| 10/18        | 0.1  | 0.2   | 0.1  |
| 10/19        | 0.1  | 0.2   | 0.1  |
| 10/20        | 0.1  | 0.2   | 0.1  |
| 10/21        | 0.1  | 0.2   | 0.1  |
| 10/22        | 0.1  | 0.3   | 0.1  |
| 10/23        | 0.   | 0.2   | 0.4  |
| 10/24        | 0.2  | 0.2   | 0.1  |
| 10/25        | 0.2  | 0.2   | 0.1  |
| 10/26        | 0.1  | 0.5   | 0.1  |
| 10/27        | 0.4  | 0.2   | 0.1  |
| 10/28        | 0.5  | 0.5   | 0.3  |
| 10/29        | 0.5  | 0.3   | 0.2  |
| 10/30        | 0.2  | 0.1   | 0.5  |
| 11/ 7        | 0.5  | 0.1   | 0.1  |
| 11/ 8        | 0.3  | 0.1   | 0.   |

TABLE A-16. NITRITE NITROGEN (continued)  
(mg/l)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 11/11                      | 0.5         | 0.5          | 0.2         |
| 11/13                      | 0.1         | 0.1          | 0.1         |
| 11/19                      | 0.3         | 0.3          | 0.1         |
| 11/21                      | 0.3         | 0.1          | 0.1         |
| 11/25                      | 0.2         | 0.6          | 0.          |
| 11/26                      | 0.          | 0.           | 0.          |
| 12/ 4                      | 0.2         | 0.1          | 0.1         |
| 12/ 6                      | 0.1         | 0.1          | 0.          |
| 12/ 9                      | 0.          | 0.1          | 0.          |
| 12/11                      | 0.2         | 0.1          | 0.          |
| 12/17                      | 0.          | 0.           | 0.          |
| 12/19                      | 0.          | 0.           | 0.          |
| 12/23                      | 0.          | 0.           | 0.          |
| 12/27                      | 0.1         | 0.1          | 0.          |
| <u>1975</u>                |             |              |             |
| 1/ 3                       | 0.          | 0.           | 0.          |
| 1/ 4                       | 0.          | 0.           | 0.          |
| 1/ 5                       | 0.          | 0.           | 0.          |
| 1/ 6                       | 0.          | 0.           | 0.          |
| 1/ 7                       | 0.          | 0.1          | 0.          |
| 1/ 8                       | 0.          | 0.           | 0.          |
| 1/ 9                       | 0.          | 0.           | 0.          |
| 1/10                       | 0.          | 0.           | 0.          |
| 1/11                       | 0.          | 0.           | 0.          |
| 1/12                       | 0.          | 0.           | 0.          |
| 1/13                       | 0.          | 0.           | 0.          |
| 1/14                       | 0.          | 0.           | 0.          |
| 1/15                       | 0.          | 0.           | 0.          |
| 1/16                       | 0.          | 0.           | 0.          |
| 1/17                       | 0.          | 0.           | 0.          |
| 1/18                       | 0.          | 0.           | 0.          |
| 1/19                       | 0.          | 0.           | 0.          |
| 1/20                       | 0.          | 0.           | 0.          |
| 1/21                       | 0.          | 0.           | 0.          |
| 1/22                       | 0.1         | 0.           | 0.          |
| 1/23                       | 0.1         | 0.           | 0.          |
| 1/24                       | 0.          | 0.           | 0.          |
| 1/25                       | 0.          | 0.           | 0.          |
| 1/26                       | 0.          | 0.           | 0.          |
| 1/27                       | 0.1         | 0.           | 0.          |

TABLE A-16. NITRITE NITROGEN (continued)  
(mg/l)

| 1975<br>DATE | EAST | SOUTH | WEST |
|--------------|------|-------|------|
| 1/28         | 0.   | 0.    | 0.   |
| 1/29         | 0.1  | 0.    | 0.1  |
| 1/30         | 0.   | 0.    | 0.   |
| 1/31         | 0.   | 0.    | 0.   |
| 2/ 1         | 0.   | 0.    | 0.   |
| 2/ 6         | 0.1  | 0.    | 0.   |
| 2/ 8         | 0.1  | 0.    | 0.   |
| 2/11         | 0.1  | 0.    | 0.1  |
| 2/14         | 0.1  | 0.    | 0.   |
| 2/16         | 0.   | 0.    | 0.   |
| 2/19         | 0.   | 0.1   | 0.   |
| 2/24         | 0.   | 0.    | 0.   |
| 2/27         | 0.   | 0.    | 0.   |
| 3/ 4         | 0.   | 0.    | 0.   |
| 3/ 7         | 0.   | 0.    | 0.   |
| 3/12         | 0.   | 0.    | 0.   |
| 3/17         | 0.   | 0.    | 0.   |
| 3/18         | 0.1  | 0.    | 0.1  |
| 3/20         | 0.   | 0.1   | 0.1  |
| 3/26         | 0.1  | 0.1   | 0.1  |
| 3/28         | 0.1  | 0.1   | 0.1  |
| 4/ 1         | 0.   | 0.1   | 0.1  |
| 4/ 2         | 0.   | 0.1   | 0.1  |
| 4/ 3         | 0.   | 0.1   | 0.1  |
| 4/ 4         | 0.   | 0.1   | 0.1  |
| 4/ 5         | 0.   | 0.1   | 0.1  |
| 4/ 6         | 0.1  | 0.1   | 0.1  |
| 4/ 7         | 0.1  | 0.1   | 0.1  |
| 4/ 8         | 0.   | 0.1   | 0.1  |
| 4/ 9         | 0.   | 0.1   | 0.1  |
| 4/10         | 0.   | 0.1   | 0.1  |
| 4/11         | 0.   | 0.1   | 0.1  |
| 4/12         | 0.   | 0.    | 0.1  |
| 4/13         | 0.   | 0.    | 0.1  |
| 4/14         | 0.   | 0.1   | 0.1  |
| 4/15         | 0.   | 0.    | 0.1  |
| 4/16         | 0.   | 0.1   | 0.1  |
| 4/17         | 0.   | 0.1   | 0.1  |
| 4/18         | 0.   | 0.1   | 0.1  |

TABLE A-16. NITRITE NITROGEN (continued)  
(mg/l)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/19                       | 0.          | 0.1          | 0.1         |
| 4/20                       | 0.          | 0.1          | 0.1         |
| 4/21                       | 0.          | 0.1          | 0.1         |
| 4/22                       | 0.          | 0.1          | 0.1         |
| 4/23                       | 0.          | 0.1          | 0.1         |
| 4/24                       | 0.          | 0.2          | 0.1         |
| 4/25                       | 0.          | 0.1          | 0.1         |
| 4/26                       | 0.          | 0.2          | 0.1         |
| 4/27                       | 0.          | 0.2          | 0.2         |
| 4/28                       | 0.          | 0.           | 0.1         |
| 4/29                       | 0.          | 0.1          | 0.2         |
| 4/30                       | 0.          | 0.1          | 0.2         |
| 5/ 6                       | 0.          | 0.1          | 0.2         |
| 5/ 9                       | 0.          | 0.1          | 0.1         |
| 5/14                       | 0.          | 0.1          | 0.          |
| 5/17                       | 0.          | 0.1          | 0.          |
| 5/21                       | 0.          | 0.2          | 0.          |
| 5/23                       | 0.          | 0.4          | 0.          |
| 5/26                       | 0.          | 0.9          | 0.1         |
| 5/29                       | 0.          | 0.1          | 0.2         |
| 6/ 3                       | 0.          | 0.2          | 0.          |
| 6/ 6                       | 0.1         | 0.1          | 0.          |
| 6/ 8                       | 0.          | 0.1          | 0.          |
| 6/11                       | 0.1         | 0.           | 0.          |
| 6/16                       | 0.          | 0.1          | 0.          |
| 6/20                       | 0.          | 0.1          | 0.          |
| 6/24                       | 0.1         | 0.           | 0.          |
| 6/28                       | 0.          | 0.           | 0.          |
| 7/ 1                       | 0.          | 0.           | 0.          |
| 7/ 2                       | 0.          | 0.           | 0.          |
| 7/ 3                       | 0.          | 0.           | 0.          |
| 7/ 4                       | 0.          | 0.           | 0.          |
| 7/ 5                       | 0.          | 0.           | 0.          |
| 7/ 6                       | 0.          | 0.           | 0.          |
| 7/ 7                       | 0.          | 0.           | 0.          |
| 7/ 8                       | 0.          | 0.           | 0.          |
| 7/ 9                       | 0.          | 0.           | 0.          |
| 7/10                       | 0.          | 0.           | 0.          |
| 7/11                       | 0.          | 0.           | 0.          |

TABLE A-16. NITRITE NITROGEN (continued)  
(mg/l)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/12                       | 0.          | 0.           | 0.          |
| 7/13                       | 0.          | 0.           | 0.          |
| 7/14                       | 0.          | 0.           | 0.          |
| 7/15                       | 0.          | 0.           | 0.          |
| 7/16                       | 0.          | 0.           | 0.          |
| 7/17                       | 0.          | 0.2          | 0.          |
| 7/18                       | 0.          | 0.1          | 0.          |
| 7/19                       | 0.          | 0.1          | 0.          |
| 7/20                       | 0.          | 0.1          | 0.          |
| 7/21                       | 0.          | 0.1          | 0.          |
| 7/22                       | 0.          | 0.           | 0.          |
| 7/23                       | 0.          | 0.           | 0.          |
| 7/24                       | 0.          | 0.           | 0.          |
| 7/25                       | 0.          | 0.1          | 0.          |
| 7/26                       | 0.          | 0.           | 0.          |
| 7/27                       | 0.          | 0.           | 0.          |
| 7/28                       | 0.          | 0.           | 0.          |
| 7/29                       | 0.          | 0.           | 0.          |
| 7/30                       | 0.          | 0.           | 0.          |
| 8/ 5                       | 0.          | 0.           | 0.          |
| 8/ 7                       | 0.          | 0.           | 0.          |
| 8/11                       | 0.          | 0.           | 0.          |
| 8/12                       | 0.          | 0.           | 0.          |
| 8/20                       | 0.          | 0.1          | 0.          |
| 8/22                       | 0.          | 0.2          | 0.          |
| 8/26                       | 0.          | 0.           | 0.          |
| 8/28                       | 0.          | 0.1          | 0.          |



TABLE A-17: NITRATE NITROGEN  
(mg/l)

| 1974<br>DATE | EAST | SOUTH | WEST |
|--------------|------|-------|------|
| 9/ 4         | 0.2  | 0.6   | 0.0  |
| 9/ 6         | 0.1  | 0.3   | 0.0  |
| 9/10         | 3.0  | -     | 0.0  |
| 9/12         | 0.0  | 0.0   | 0.1  |
| 9/16         | 0.0  | 0.0   | 0.0  |
| 9/19         | 0.0  | 0.1   | 0.0  |
| 9/24         | 0.0  | 0.0   | 0.0  |
| 9/26         | 0.0  | 0.0   | 0.0  |
| 10/ 1        | 0.   | 0.    | 0.   |
| 10/ 2        | 0.   | 0.    | 0.   |
| 10/ 3        | 0.   | 0.    | 0.   |
| 10/ 4        | 0.   | 0.    | 0.   |
| 10/ 5        | 0.   | 0.    | 0.   |
| 10/ 6        | 0.   | 0.    | 0.1  |
| 10/ 7        | 0.2  | 0.2   | 0.   |
| 10/ 8        | 0.5  | 0.1   | 0.2  |
| 10/ 9        | 0.   | 0.2   | 0.   |
| 10/10        | 0.   | 0.2   | 0.   |
| 10/11        | 0.   | 0.2   | 0.   |
| 10/12        | 0.   | 0.    | 0.   |
| 10/13        | 1.0  | 1.6   | 0.1  |
| 10/14        | 3.0  | 3.2   | 0.7  |
| 10/15        | 4.3  | 4.9   | 0.9  |
| 10/16        | 6.0  | 5.9   | 1.5  |
| 10/17        | 5.8  | 3.8   | 0.4  |
| 10/18        | 6.1  | 3.0   | 0.1  |
| 10/19        | 6.5  | 4.4   | 0.4  |
| 10/20        | 6.6  | 6.2   | 0.1  |
| 10/21        | 3.9  | 3.8   | 1.9  |
| 10/22        | 6.6  | 7.3   | 0.2  |
| 10/23        | 4.0  | 3.4   | 0.6  |
| 10/24        | 8.3  | 6.5   | 0.9  |
| 10/25        | 8.3  | 6.5   | 0.9  |
| 10/26        | 8.4  | 3.5   | 0.5  |
| 10/27        | 11.6 | 5.8   | 0.8  |
| 10/28        | 11.5 | 4.5   | 0.4  |
| 10/29        | 15.5 | 4.8   | 0.7  |
| 10/30        | 16.8 | 6.3   | 0.4  |
| 11/ 7        | 9.5  | 3.9   | 1.3  |

TABLE A-17. NITRATE NITROGEN (continued)  
(mg/l)

| 1974<br>DATE | EAST | SOUTH | WEST |
|--------------|------|-------|------|
| 11/ 8        | 11.7 | 3.9   | 1.6  |
| 11/11        | 11.5 | 3.2   | 1.2  |
| 11/13        | 11.9 | 3.8   | 0.9  |
| 11/19        | 16.5 | 5.7   | 0.9  |
| 11/21        | 11.5 | 4.9   | 0.9  |
| 11/25        | 0.3  | 4.5   | 1.0  |
| 11/26        | 8.8  | 6.0   | 2.0  |
| 12/ 4        | 1.3  | 1.5   | 0.9  |
| 12/ 6        | 0.8  | 2.0   | 1.2  |
| 12/ 9        | 0.9  | 1.9   | 0.9  |
| 12/11        | 0.8  | 1.2   | 0.9  |
| 12/17        | 0.6  | 1.0   | 0.9  |
| 12/19        | 1.0  | 1.2   | 0.6  |
| 12/23        | 0.5  | 1.0   | 0.9  |
| 12/27        | 0.3  | 0.8   | 0.8  |
| 1975         |      |       |      |
| 1/ 3         | 0.9  | 1.2   | 1.2  |
| 1/ 4         | 0.9  | 1.2   | 1.2  |
| 1/ 5         | 0.6  | 0.9   | 0.8  |
| 1/ 6         | 0.6  | 0.9   | 1.0  |
| 1/ 7         | 0.8  | 0.8   | 1.5  |
| 1/ 8         | 0.8  | 0.8   | 1.5  |
| 1/ 9         | 0.9  | 0.6   | 1.2  |
| 1/10         | 0.6  | 0.5   | 0.7  |
| 1/11         | 0.6  | 0.5   | 0.8  |
| 1/12         | 0.6  | 0.8   | 0.7  |
| 1/13         | 0.7  | 0.7   | 1.0  |
| 1/14         | 1.1  | 1.4   | 0.7  |
| 1/15         | 1.2  | 0.8   | 1.0  |
| 1/16         | 0.8  | 0.6   | 1.1  |
| 1/17         | 0.6  | 0.9   | 1.2  |
| 1/18         | 1.7  | 0.8   | 1.5  |
| 1/19         | 0.6  | 0.5   | 0.6  |
| 1/20         | 1.1  | 0.5   | 0.9  |
| 1/21         | 0.7  | 0.8   | 0.7  |
| 1/22         | 0.7  | 0.4   | 0.8  |
| 1/23         | 0.9  | 0.5   | 1.0  |
| 1/24         | 0.5  | 0.4   | 0.3  |
| 1/25         | 0.5  | 0.6   | 0.6  |
| 1/26         | 0.4  | 0.4   | 0.8  |

TABLE A-17. NITRATE NITROGEN (continued)  
(mg/l).

| 1975<br>DATE | EAST | SOUTH | WEST |
|--------------|------|-------|------|
| 1/27         | 0.6  | 0.4   | 0.7  |
| 1/28         | 0.5  | 0.3   | 0.4  |
| 1/29         | 0.5  | 0.3   | 0.5  |
| 1/30         | 0.5  | 0.5   | 0.6  |
| 1/31         | 0.6  | 0.7   | 0.6  |
| 2/ 1         | 0.8  | 0.4   | 0.6  |
| 2/ 6         | 0.6  | 0.6   | 0.6  |
| 2/ 8         | 0.9  | 0.4   | 0.5  |
| 2/11         | 0.7  | 0.5   | 0.4  |
| 2/14         | 0.4  | 0.5   | 0.6  |
| 2/16         | 0.5  | 0.3   | 0.6  |
| 2/19         | 0.7  | 0.5   | 0.6  |
| 2/24         | 0.6  | 0.5   | 0.8  |
| 2/27         | 0.8  | 0.7   | 0.9  |
| 3/ 4         | 0.5  | 0.4   | 0.7  |
| 3/ 7         | 0.7  | 0.4   | 0.7  |
| 3/12         | 0.4  | 0.4   | 0.7  |
| 3/17         | 0.5  | 0.3   | 0.7  |
| 3/18         | 0.0  | 0.6   | 0.5  |
| 3/20         | 0.7  | 0.7   | 0.7  |
| 3/26         | 0.6  | 0.8   | 0.8  |
| 3/28         | 0.5  | 0.7   | 0.7  |
| 4/ 1         | 0.9  | 0.9   | 1.0  |
| 4/ 2         | 0.8  | 1.1   | 0.9  |
| 4/ 3         | 0.9  | 0.8   | 1.0  |
| 4/ 4         | 1.0  | 0.7   | 1.0  |
| 4/ 5         | 1.3  | 0.9   | 0.7  |
| 4/ 6         | 0.9  | 0.6   | 0.8  |
| 4/ 7         | 1.0  | 0.8   | 0.8  |
| 4/ 8         | 0.7  | 0.6   | 0.8  |
| 4/ 9         | 0.7  | 0.7   | 0.9  |
| 4/10         | 0.8  | 0.5   | 0.7  |
| 4/11         | 1.0  | 0.9   | 0.8  |
| 4/12         | 0.8  | 0.8   | 0.9  |
| 4/13         | 1.1  | 0.6   | 0.7  |
| 4/14         | 0.8  | 0.4   | 0.6  |
| 4/15         | 1.0  | 0.8   | 0.9  |
| 4/16         | 0.9  | 0.6   | 0.7  |
| 4/17         | 0.9  | 1.0   | 0.9  |

TABLE A-17. NITRATE NITROGEN (continued)  
(ng/l)

| 1975<br>DATE | EAST | SOUTH | WEST |
|--------------|------|-------|------|
| 4/18         | 1.1  | 0.7   | 0.7  |
| 4/19         | 1.0  | 1.0   | 0.9  |
| 4/20         | 1.3  | 0.9   | 1.0  |
| 4/21         | 1.2  | 1.1   | 1.0  |
| 4/22         | 1.0  | 1.1   | 0.9  |
| 4/23         | 1.0  | 0.8   | 0.7  |
| 4/24         | 1.7  | 1.0   | 0.8  |
| 4/25         | 1.4  | 0.9   | 0.5  |
| 4/26         | 1.3  | 0.9   | 0.6  |
| 4/27         | 1.4  | 0.6   | 0.5  |
| 4/28         | 1.5  | 0.8   | 0.5  |
| 4/29         | 1.3  | 0.8   | 0.4  |
| 4/30         | 1.2  | 0.7   | 0.6  |
| 5/ 6         | 1.8  | 1.5   | 1.6  |
| 5/ 9         | 1.5  | 0.9   | 0.6  |
| 5/14         | 1.7  | 0.8   | 0.5  |
| 5/17         | 1.9  | 1.7   | 0.8  |
| 5/21         | 1.6  | 2.1   | 0.7  |
| 5/23         | 1.3  | 1.9   | 0.7  |
| 5/26         | 1.0  | 3.6   | 1.2  |
| 5/29         | 1.1  | 3.8   | 0.7  |
| 6/ 3         | 1.2  | 0.7   | 0.5  |
| 6/ 6         | 0.9  | 1.0   | 0.6  |
| 6/ 8         | 0.7  | 0.9   | 0.5  |
| 6/11         | 0.8  | 0.7   | 0.3  |
| 6/16         | 1.0  | 0.5   | 0.4  |
| 6/20         | 0.8  | 0.9   | 0.4  |
| 6/24         | 0.8  | 0.8   | 0.3  |
| 6/28         | 0.8  | 1.2   | 0.5  |
| 7/ 1         | 1.0  | 0.8   | 0.4  |
| 7/ 2         | 1.1  | 1.2   | 0.5  |
| 7/ 3         | 1.0  | 0.9   | 0.2  |
| 7/ 4         | 1.0  | 0.6   | 0.2  |
| 7/ 5         | 1.5  | 0.4   | 0.2  |
| 7/ 6         | 1.0  | 1.0   | 0.4  |
| 7/ 7         | 0.9  | 0.6   | 0.1  |
| 7/ 8         | 2.0  | 1.0   | 0.8  |
| 7/ 9         | 2.1  | 1.3   | 0.9  |
| 7/10         | 2.2  | 1.5   | 1.0  |

TABLE A-17. NITRATE NITROGEN (continued)  
(mg/l)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/11                       | 2.8         | 1.2          | 0.8         |
| 7/12                       | 1.6         | 1.4          | 1.2         |
| 7/13                       | 1.6         | 0.8          | 0.8         |
| 7/14                       | 1.8         | 0.7          | 0.5         |
| 7/15                       | 1.7         | 0.7          | 0.7         |
| 7/16                       | 1.9         | 1.2          | 0.5         |
| 7/17                       | 1.5         | 0.7          | 0.5         |
| 7/18                       | 1.1         | 0.6          | 0.2         |
| 7/19                       | 1.4         | 0.5          | 0.4         |
| 7/20                       | 0.8         | 0.5          | 0.7         |
| 7/21                       | 1.8         | 0.8          | 1.0         |
| 7/22                       | 1.2         | 0.7          | 1.0         |
| 7/23                       | 1.2         | 0.7          | 0.5         |
| 7/24                       | 2.0         | 0.9          | 0.6         |
| 7/25                       | 1.5         | 0.8          | 0.6         |
| 7/26                       | 2.1         | 1.2          | 0.4         |
| 7/27                       | 1.7         | 1.2          | 1.0         |
| 7/28                       | 1.8         | 0.7          | 1.1         |
| 7/29                       | 1.6         | 1.6          | 0.9         |
| 7/30                       | 1.3         | 1.7          | 1.0         |
| 8/ 5                       | 0.9         | 0.8          | 0.4         |
| 8/ 7                       | 1.5         | 1.6          | 0.9         |
| 8/11                       | 1.6         | 1.9          | 1.0         |
| 8/12                       | 1.7         | 1.2          | 0.6         |
| 8/20                       | 1.2         | 1.3          | 0.4         |
| 8/22                       | 1.3         | 1.0          | 0.7         |
| 8/26                       | 1.5         | 1.5          | 1.0         |
| 8/28                       | 1.6         | 1.3          | 0.3         |

TABLE A-18. TOTAL COLIFORM/100 ml

| 1974<br>DATE | RAW               | EAST      | SOUTH   | WEST   |
|--------------|-------------------|-----------|---------|--------|
| 9/ 4         | -                 | 5,000     | 1,700   | 200    |
| 9/ 6         | $26 \times 10^6$  | 240,000   | 240,000 | 930    |
| 9/10         | $56 \times 10^6$  | 130,000   | -       | 560    |
| 9/12         | $56 \times 10^6$  | 240,000   | 11,000  | 790    |
| 9/16         | $3.3 \times 10^6$ | 240,000   | 17,000  | 170    |
| 9/19         | $4.8 \times 10^6$ | 21,000    | 7,900   | 1,300  |
| 9/24         | $17 \times 10^6$  | 540,000   | 13,000  | 3,500  |
| 9/26         | $7.9 \times 10^6$ | 240,000   | 160,000 | 220    |
| 10/ 1        | $17 \times 10^6$  | 350,000   | 17,000  | 370    |
| 10/ 2        | $28 \times 10^6$  | 540,000   | 91,000  | 1,300  |
| 10/ 3        | $56 \times 10^6$  | 79,000    | 7,900   | 790    |
| 10/ 4        | $1.7 \times 10^6$ | 79,000    | 4,900   | 1,300  |
| 10/ 5        | $4.9 \times 10^6$ | 170,000   | 13,000  | 3,500  |
| 10/ 6        | $4.9 \times 10^6$ | 170,000   | 17,000  | 1,300  |
| 10/ 7        | $4.3 \times 10^6$ | 240,000   | 24,000  | 930    |
| 10/ 8        | $4.3 \times 10^6$ | 43,000    | 24,000  | 24,000 |
| 10/ 9        | $240 \times 10^6$ | 2,400,000 | 240,000 | 24,000 |
| 10/10        | $9.3 \times 10^6$ | 93,000    | 46,000  | 930    |
| 10/11        | $46 \times 10^6$  | 460,000   | 24,000  | 930    |
| 10/12        | $24 \times 10^6$  | 1,100,000 | 46,000  | 1,500  |
| 10/13        | $110 \times 10^6$ | 1,100,000 | 46,000  | 2,400  |
| 10/14        | $13 \times 10^6$  | 460,000   | 24,000  | 2,000  |
| 10/15        | $2.3 \times 10^6$ | 93,000    | 46,000  | 2,400  |
| 10/16        | $4.3 \times 10^6$ | 240,000   | 24,000  | 11,000 |
| 10/17        | $4.3 \times 10^6$ | 43,000    | 46,000  | 4,600  |
| 10/18        | $4.3 \times 10^6$ | 240,000   | 46,000  | 2,400  |
| 10/19        | $24 \times 10^6$  | 150,000   | 46,000  | 11,000 |
| 10/20        | $0.9 \times 10^6$ | 460,000   | 24,000  | 2,400  |
| 10/21        | $4.3 \times 10^6$ | 240,000   | 46,000  | 2,400  |
| 10/22        | $4.3 \times 10^6$ | 460,000   | 24,000  | 2,400  |
| 10/23        | $9.3 \times 10^6$ | 460,000   | 24,000  | 2,400  |
| 10/24        | $110 \times 10^6$ | 150,000   | 46,000  | 2,400  |
| 10/25        | $2.6 \times 10^6$ | 240,000   | 46,000  | 2,400  |
| 10/26        | $4.3 \times 10^6$ | 150,000   | 46,000  | 2,400  |
| 10/27        | $9.3 \times 10^6$ | 240,000   | 46,000  | 2,400  |
| 10/28        | $4.3 \times 10^6$ | 240,000   | 46,000  | 2,400  |
| 10/29        | $4.3 \times 10^6$ | 240,000   | 46,000  | 11,000 |
| 10/30        | $9.3 \times 10^6$ | 240,000   | 46,000  | 4,600  |
| 11/ 7        | $92 \times 10^6$  | 920,000   | 100,000 | 10,000 |
| 11/ 8        | $4.9 \times 10^6$ | 240,000   | 160,000 | 9,200  |
| 11/11        | $3.3 \times 10^6$ | 130,000   | 49,000  | 13,000 |



TABLE A-18. TOTAL COLIFORM/100 ml (continued)

| 1974<br>DATE | RAW               | EAST             | SOUTH   | WEST   |
|--------------|-------------------|------------------|---------|--------|
| 11/13        | $2.3 \times 10^6$ | 130,000          | 23,000  | 2,300  |
| 11/19        | $2.3 \times 10^6$ | 350,000          | 54,000  | 1,300  |
| 11/21        | $2.3 \times 10^6$ | 540,000          | 92,000  | 3,500  |
| 11/25        | $4.9 \times 10^6$ | 240,000          | 35,000  | 3,500  |
| 11/26        | $7.9 \times 10^6$ | 240,000          | 54,000  | 5,400  |
| 12/ 4        | $13 \times 10^6$  | 79,000           | 13,000  | 790    |
| 12/ 6        | $7.9 \times 10^6$ | 130,000          | 24,000  | 1,700  |
| 12/ 9        | $4.9 \times 10^6$ | 540,000          | 7,900   | 1,100  |
| 12/11        | $2.4 \times 10^6$ | 130,000          | 35,000  | 790    |
| 12/17        | $13 \times 10^6$  | 240,000          | 54,000  | 3,500  |
| 12/19        | $7.9 \times 10^6$ | 240,000          | 54,000  | 790    |
| 12/23        | $35 \times 10^6$  | 130,000          | 92,000  | 1,300  |
| 12/27        | $92 \times 10^6$  | 49,000           | 7,000   | 790    |
| 1975         |                   |                  |         |        |
| 1/ 3         | $9.3 \times 10^6$ | $11 \times 10^5$ | 15,000  | 1,500  |
| 1/ 4         | $4.3 \times 10^6$ | 460,000          | 46,000  | 1,500  |
| 1/ 5         | $2.3 \times 10^6$ | 1,100,000        | 24,000  | 11,000 |
| 1/ 6         | $9.3 \times 10^6$ | 460,000          | 9,300   | 11,000 |
| 1/ 7         | $24 \times 10^6$  | 340,000          | 24,000  | 4,600  |
| 1/ 8         | $9.3 \times 10^6$ | 240,000          | 110,000 | 11,000 |
| 1/ 9         | $24 \times 10^6$  | 460,000          | 110,000 | 72,400 |
| 1/10         | $4.3 \times 10^6$ | 240,000          | 240,000 | 2,300  |
| 1/11         | $4.3 \times 10^6$ | 460,000          | 93,000  | 24,000 |
| 1/12         | $9.3 \times 10^6$ | 240,000          | 93,000  | 24,000 |
| 1/13         | $9.3 \times 10^6$ | 240,000          | 43,000  | 24,000 |
| 1/14         | $2.3 \times 10^6$ | 93,000           | 15,000  | 9,300  |
| 1/15         | $4.3 \times 10^6$ | 93,000           | 23,000  | 2,300  |
| 1/16         | $4.3 \times 10^6$ | 93,000           | 110,000 | 9,300  |
| 1/17         | $9.3 \times 10^6$ | 93,000           | 24,000  | 4,300  |
| 1/18         | $2.3 \times 10^6$ | 150,000          | 24,000  | 7,500  |
| 1/19         | $2.3 \times 10^6$ | 150,000          | 24,000  | 7,500  |
| 1/20         | $2.3 \times 10^6$ | 460,000          | 15,000  | 4,300  |
| 1/21         | $9.3 \times 10^6$ | 240,000          | 46,000  | 2,300  |
| 1/22         | $2.3 \times 10^6$ | 93,000           | 24,000  | 4,300  |
| 1/23         | $4.3 \times 10^6$ | 93,000           | 24,000  | 2,300  |
| 1/24         | $9.3 \times 10^6$ | 460,000          | 24,000  | 4,300  |
| 1/25         | $2.3 \times 10^6$ | 240,000          | 9,300   | 9,300  |
| 1/26         | $2.3 \times 10^6$ | 240,000          | 46,000  | 4,300  |
| 1/27         | $4.3 \times 10^6$ | 150,000          | 24,000  | 4,600  |

TABLE A-18. TOTAL COLIFORM/100 ml (continued)

| 1975<br>DATE | RAW               | EAST      | SOUTH   | WEST  |
|--------------|-------------------|-----------|---------|-------|
| 1/28         | $9.3 \times 10^6$ | 240,000   | 24,000  | 2,400 |
| 1/29         | $2.3 \times 10^6$ | 240,000   | 24,000  | 1,500 |
| 1/30         | $7.8 \times 10^6$ | 93,000    | 46,000  | 2,400 |
| 1/31         | $2.3 \times 10^6$ | 93,000    | 24,000  | 2,400 |
| 2/ 1         | $4.3 \times 10^6$ | 460,000   | 110,000 | 4,600 |
| 2/ 6         | $4.3 \times 10^6$ | 240,000   | 110,000 | 2,400 |
| 2/ 8         | $7.9 \times 10^6$ | 240,000   | 35,000  | 3,400 |
| 2/11         | $11 \times 10^6$  | 240,000   | 7,900   | 490   |
| 2/14         | $3.3 \times 10^6$ | 240,000   | 7,900   | 790   |
| 2/16         | $4.9 \times 10^6$ | 170,000   | 35,000  | 9,200 |
| 2/19         | $24 \times 10^6$  | 130,000   | 13,000  | 3,500 |
| 2/25         | $4.9 \times 10^6$ | 240,000   | 35,000  | 9,200 |
| 2/27         | $4.9 \times 10^6$ | 920,000   | 35,000  | 9,200 |
| 3/ 4         | $3.3 \times 10^6$ | 79,000    | 13,000  | 1,300 |
| 3/ 7         | $4.9 \times 10^6$ | 240,000   | 35,000  | 3,500 |
| 3/13         | $35 \times 10^6$  | 240,000   | 35,000  | 330   |
| 3/15         | $7.9 \times 10^6$ | 130,000   | 7,000   | 490   |
| 3/18         | $7.9 \times 10^6$ | 170,000   | 13,000  | 260   |
| 3/20         | $7.9 \times 10^6$ | 49,000    | 13,000  | 790   |
| 3/26         | $4.9 \times 10^6$ | 350,000   | 24,000  | 330   |
| 3/28         | $13 \times 10^6$  | 240,000   | 24,000  | 790   |
| 4/ 1         | $0.7 \times 10^6$ | 240,000   | 24,000  | 230   |
| 4/ 2         | $9.3 \times 10^6$ | 240,000   | 4,300   | 230   |
| 4/ 3         | $0.9 \times 10^6$ | 240,000   | 4,300   | 930   |
| 4/ 4         | $2.3 \times 10^6$ | 150,000   | 2,300   | 930   |
| 4/ 5         | $4.3 \times 10^6$ | 240,000   | 9,300   | 1,500 |
| 4/ 6         | $2.3 \times 10^6$ | 150,000   | 24,000  | 430   |
| 4/ 7         | $24 \times 10^6$  | 240,000   | 2,300   | 430   |
| 4/ 8         | $2.3 \times 10^6$ | 240,000   | 2,300   | 230   |
| 4/ 9         | $24 \times 10^6$  | 460,000   | 900     | 150   |
| 4/10         | $2.3 \times 10^6$ | 460,000   | 2,300   | 930   |
| 4/11         | $4.3 \times 10^6$ | 460,000   | 2,400   | < 300 |
| 4/12         | $24 \times 10^6$  | 1,100,000 | 2,300   | 4,600 |
| 4/13         | $9.3 \times 10^6$ | 240,000   | 930     | 930   |
| 4/14         | $24 \times 10^6$  | 240,000   | 2,400   | 430   |
| 4/15         | $2.3 \times 10^6$ | 460,000   | 430     | 430   |
| 4/16         | $7.5 \times 10^6$ | 240,000   | 24,000  | 930   |
| 4/17         | $24 \times 10^6$  | 240,000   | 4,600   | 90    |
| 4/18         | $24 \times 10^6$  | 150,000   | 4,300   | 430   |
| 4/19         | $2.3 \times 10^6$ | 93,000    | 9,300   | 150   |
| 4/20         | $9.3 \times 10^6$ | 43,000    | 24,000  | 930   |

TABLE A-18. TOTAL COLIFORM/100 ml (continued)

| 1975<br>DATE | RAM               | EAST       | SOUTH    | WEST   |
|--------------|-------------------|------------|----------|--------|
| 4/21         | $9.3 \times 10^5$ | 93,000     | 2,300    | 2,400  |
| 4/22         | $24 \times 10^6$  | 93,000     | 900      | 150    |
| 4/23         | $9.3 \times 10^6$ | 240,000    | 9,300    | 230    |
| 4/24         | $9.3 \times 10^6$ | 23,000     | 4,300    | 230    |
| 4/25         | $4.3 \times 10^6$ | 93,000     | 2,300    | 750    |
| 4/26         | $24 \times 10^6$  | 24,000     | 9,300    | 930    |
| 4/27         | $46 \times 10^6$  | 240,000    | 24,000   | 4,600  |
| 4/28         | $15 \times 10^6$  | 460,000    | 9,300    | 930    |
| 4/29         | $4.3 \times 10^6$ | 460,000    | 46,000   | 11,000 |
| 4/30         | $24 \times 10^6$  | 21,000     | 2,300    | 430    |
| 5/ 6         | $13 \times 10^6$  | 79,000     | 13,000   | 1,100  |
| 5/ 9         | $24 \times 10^6$  | 170,000    | 4,900    | 330    |
| 5/14         | $7.9 \times 10^6$ | 350,000    | 54,000   | 230    |
| 5/17         | $18 \times 10^6$  | 79,000     | 92,000   | 790    |
| 5/21         | $2.3 \times 10^6$ | 540,000    | 35,000   | 790    |
| 5/23         | $7.9 \times 10^6$ | 920,000    | >160,000 | 9,200  |
| 5/26         | $11 \times 10^6$  | 350,000    | 79,000   | 5,400  |
| 5/29         | $7.9 \times 10^6$ | 220,000    | 49,000   | 330    |
| 6/ 3         | $35 \times 10^6$  | 350,000    | 35,000   | 490    |
| 6/ 6         | $35 \times 10^6$  | 33,000     | 7,900    | 130    |
| 6/ 8         | $13 \times 10^6$  | 79,000     | 11,000   | 330    |
| 6/11         | $13 \times 10^6$  | 540,000    | 7,900    | 1,300  |
| 6/16         | $7.9 \times 10^6$ | 130,000    | 7,900    | 45     |
| 6/20         | $35 \times 10^6$  | 23,000     | 14,000   | 20     |
| 6/24         | $4.9 \times 10^6$ | 7,800      | 4,900    | 9,200  |
| 6/28         | $11 \times 10^6$  | 7,800      | 13,000   | 9,200  |
| 7/ 1         | $9.3 \times 10^6$ | 39,000     | 7,500    | 40     |
| 7/ 2         | $15 \times 10^6$  | 460,000    | 15,000   | 430    |
| 7/ 3         | $46 \times 10^6$  | 75,000     | >24,000  | 230    |
| 7/ 4         | $4.3 \times 10^6$ | 9,000      | 9,300    | 40     |
| 7/ 5         | $24 \times 10^6$  | 93,000     | 24,000   | 430    |
| 7/ 6         | $24 \times 10^6$  | 93,000     | 46,000   | 150    |
| 7/ 7         | $24 \times 10^6$  | 43,000     | 2,300    | 150    |
| 7/ 8         | $46 \times 10^6$  | 7,000      | 1,500    | 430    |
| 7/ 9         | $24 \times 10^6$  | 23,000     | 2,300    | 430    |
| 7/10         | $24 \times 10^6$  | 24,000     | 4,300    | 430    |
| 7/11         | $4.3 \times 10^6$ | 110,000    | 700      | 70     |
| 7/12         | $24 \times 10^6$  | 240,000    | 400      | 750    |
| 7/13         | $24 \times 10^6$  | >2,400,000 | 4,300    | 40     |
| 7/14         | $24 \times 10^6$  | 460,000    | 2,300    | 90     |

TABLE A-18. TOTAL COLIFORM/100 ml (continued)

| 1975<br>DATE | FAW               | EAST    | SOUTH   | WEST  |
|--------------|-------------------|---------|---------|-------|
| 7/15         | $9.3 \times 10^6$ | 240,000 | <300    | <30   |
| 7/16         | $24 \times 10^6$  | 240,000 | 900     | 90    |
| 7/17         | $110 \times 10^6$ | 4,000   | 2,300   | <30   |
| 7/18         | $24 \times 10^6$  | 240,000 | 4,600   | 150   |
| 7/19         | $9.3 \times 10^6$ | 240,000 | 4,600   | 430   |
| 7/20         | $9.3 \times 10^6$ | 93,000  | >24,000 | <30   |
| 7/21         | $24 \times 10^6$  | 43,000  | 900     | <30   |
| 7/22         | $24 \times 10^6$  | 93,000  | 4,300   | 430   |
| 7/23         | $24 \times 10^6$  | 93,000  | 2,300   | 70    |
| 7/24         | $46 \times 10^6$  | 460,000 | 1,500   | 70    |
| 7/25         | $24 \times 10^6$  | 460,000 | 11,000  | 90    |
| 7/26         | $9.3 \times 10^6$ | 15,000  | 930     | <30   |
| 7/27         | $46 \times 10^6$  | 4,000   | 2,300   | 230   |
| 7/28         | $24 \times 10^6$  | 15,000  | 2,400   | 150   |
| 7/29         | $46 \times 10^6$  | 4,000   | >24,000 | 430   |
| 7/30         | $46 \times 10^6$  | 93,000  | >24,000 | 930   |
| 8/ 5         | $13 \times 10^6$  | 130,000 | 54,000  | 330   |
| 8/ 7         | $24 \times 10^6$  | 540,000 | 54,000  | 220   |
| 8/11         | $75 \times 10^6$  | 540,000 | 17,000  | 45    |
| 8/12         | $160 \times 10^6$ | 350,000 | 680     | 130   |
| 8/20         | $24 \times 10^6$  | 130,000 | 7,900   | 1,100 |
| 8/22         | $24 \times 10^6$  | 33,000  | 7,900   | 490   |
| 8/26         | $13 \times 10^6$  | 920,000 | 33,000  | 330   |
| 8/28         | $54 \times 10^6$  | 540,000 | 13,000  | 450   |

TABLE A-19. FECAL COLIFORMS/100 ml

| 1974<br>DATE | BAR                | EAST    | SOUTH  | WEST  |
|--------------|--------------------|---------|--------|-------|
| 9/ 4         | -                  | -       | -      | -     |
| 9/ 6         | -                  | -       | -      | -     |
| 9/10         | -                  | -       | -      | -     |
| 9/12         | $11 \times 10^6$   | 79,000  | 11,000 | 80    |
| 9/16         | $1.3 \times 10^6$  | 79,000  | 230    | 80    |
| 9/19         | $2.1 \times 10^6$  | 14,000  | 2,200  | 20    |
| 9/24         | $2.1 \times 10^6$  | 130,000 | 3,300  | 70    |
| 9/28         | $3.3 \times 10^6$  | 79,000  | 4,900  | 78    |
| 10/ 1        | $13 \times 10^6$   | 49,000  | 4,600  | 110   |
| 10/ 2        | $4.6 \times 10^6$  | 49,000  | 24,000 | 170   |
| 10/ 3        | $4.6 \times 10^6$  | 22,000  | 3,300  | 130   |
| 10/ 4        | -                  | 33,000  | 2,300  | 330   |
| 10/ 5        | $1.1 \times 10^6$  | 70,000  | 4,900  | 78    |
| 10/ 6        | $0.4 \times 10^6$  | 26,000  | 4,900  | 70    |
| 10/ 7        | $4.3 \times 10^6$  | 43,000  | 9,300  | 230   |
| 10/ 8        | $4.3 \times 10^6$  | 23,000  | 4,300  | 230   |
| 10/ 9        | $2.1 \times 10^6$  | 7,000   | 700    | 90    |
| 10/10        | $2.3 \times 10^6$  | 43,000  | 2,300  | 210   |
| 10/11        | $1.5 \times 10^6$  | 93,000  | 9,300  | 90    |
| 10/12        | $1.5 \times 10^6$  | 93,000  | 26,000 | 40    |
| 10/13        | $2.1 \times 10^6$  | 240,000 | 4,300  | 40    |
| 10/14        | $7.9 \times 10^6$  | 43,000  | 4,300  | 930   |
| 10/15        | $0.9 \times 10^6$  | 93,000  | 2,300  | 230   |
| 10/16        | $1.5 \times 10^6$  | 43,000  | 9,300  | 930   |
| 10/17        | $0.9 \times 10^6$  | 23,000  | 9,300  | 280   |
| 10/18        | $0.4 \times 10^6$  | 43,000  | 24,000 | 210   |
| 10/19        | $2.3 \times 10^6$  | 43,000  | 15,000 | 430   |
| 10/20        | $2.4 \times 10^6$  | 460,000 | 24,000 | 930   |
| 10/21        | $0.9 \times 10^6$  | 240,000 | 15,000 | 230   |
| 10/22        | $0.4 \times 10^6$  | 43,000  | 9,300  | 230   |
| 10/23        | $9.3 \times 10^6$  | 93,000  | 9,300  | 430   |
| 10/24        | $15 \times 10^6$   | 75,000  | 15,000 | 2,400 |
| 10/25        | $2.4 \times 10^6$  | 240,000 | 15,000 | 210   |
| 10/26        | $0.4 \times 10^6$  | 23,000  | 9,300  | 90    |
| 10/27        | $4.3 \times 10^6$  | 93,000  | 24,000 | 430   |
| 10/28        | $4.3 \times 10^6$  | 93,000  | 9,300  | 930   |
| 10/29        | $0.7 \times 10^6$  | 43,000  | 4,300  | 430   |
| 10/30        | $1.5 \times 10^6$  | 7,000   | 2,100  | 150   |
| 11/ 7        | $2.1 \times 10^6$  | 79,000  | 2,600  | 1,100 |
| 11/ 8        | $0.78 \times 10^6$ | 33,000  | 14,000 | 490   |

TABLE A-19. FECAL COLIFORMS/100 ml (continued)

| 1974<br>DATE | RAW                | EAST    | SOUTH  | WEST  |
|--------------|--------------------|---------|--------|-------|
| 11/11        | $1.3 \times 10^6$  | 33,000  | 7,800  | 1,300 |
| 11/13        | $0.2 \times 10^6$  | 7,800   | 4,500  | 1,300 |
| 11/19        | $0.13 \times 10^6$ | 23,000  | 2,600  | 220   |
| 11/21        | $0.78 \times 10^6$ | 79,000  | 17,000 | 260   |
| 11/25        | $1.3 \times 10^6$  | 11,000  | 1,300  | 170   |
| 11/26        | $1.4 \times 10^6$  | 7,000   | 7,900  | 110   |
| 12/ 4        | $2.3 \times 10^6$  | 7,000   | 3,300  | 78    |
| 12/ 6        | $3.3 \times 10^6$  | 17,000  | 700    | 78    |
| 12/ 9        | $3.3 \times 10^6$  | 33,000  | 3,300  | 0     |
| 12/11        | $0.27 \times 10^6$ | 7,800   | 3,300  | 20    |
| 12/17        | $3.3 \times 10^6$  | 22,000  | 4,900  | 340   |
| 12/19        | $0.7 \times 10^6$  | 11,000  | 11,000 | 78    |
| 12/23        | $3.3 \times 10^6$  | 33,000  | 11,000 | 220   |
| 12/27        | $2.1 \times 10^6$  | 4,500   | 1,100  | 48    |
| 1975         |                    |         |        |       |
| 1/ 3         | $2.1 \times 10^6$  | 93,000  | 4,300  | 1,500 |
| 1/ 4         | $0.9 \times 10^6$  | 93,000  | 9,300  | 90    |
| 1/ 5         | $0.9 \times 10^6$  | 120,000 | 9,300  | 930   |
| 1/ 6         | $9.3 \times 10^6$  | 21,000  | 4,300  | 280   |
| 1/ 7         | $4.3 \times 10^6$  | 9,000   | 26,000 | 1,500 |
| 1/ 8         | $0.4 \times 10^6$  | 93,000  | 9,300  | 2,400 |
| 1/ 9         | $0.9 \times 10^6$  | 23,000  | 26,000 | 4,600 |
| 1/10         | $0.4 \times 10^6$  | 93,000  | 43,000 | 2,300 |
| 1/11         | $3.3 \times 10^6$  | 43,000  | 7,000  | 4,300 |
| 1/12         | $0.9 \times 10^6$  | 93,000  | 15,000 | 4,300 |
| 1/13         | $7.3 \times 10^6$  | 9,000   | 9,000  | 2,300 |
| 1/14         | $0.4 \times 10^6$  | 43,000  | 4,000  | 400   |
| 1/15         | $0.7 \times 10^6$  | 23,000  | 9,000  | 400   |
| 1/16         | $0.9 \times 10^6$  | 93,000  | 1,500  | 400   |
| 1/17         | $2.3 \times 10^6$  | 2,300   | 1,500  | 400   |
| 1/18         | $0.4 \times 10^6$  | 9,000   | 1,500  | 700   |
| 1/19         | $0.9 \times 10^6$  | 15,000  | 1,500  | 400   |
| 1/20         | $0.9 \times 10^6$  | 43,000  | 2,300  | 900   |
| 1/21         | $4.3 \times 10^6$  | 9,000   | 15,000 | 400   |
| 1/22         | $0.9 \times 10^6$  | 15,000  | 9,300  | 900   |
| 1/23         | $0.9 \times 10^6$  | 43,000  | 4,300  | 400   |
| 1/24         | $2.1 \times 10^6$  | 21,000  | 2,100  | 400   |
| 1/25         | $2.3 \times 10^6$  | 93,000  | 4,300  | 2,300 |
| 1/26         | $0.9 \times 10^6$  | 21,000  | 24,000 | 900   |
| 1/27         | $0.9 \times 10^6$  | 43,000  | 4,300  | 930   |
| 1/28         | $0.7 \times 10^6$  | 9,000   | 1,500  | 90    |



TABLE A-19. FECAL COLIFORMS/100 ml (continued)

| 1975<br>DATE | RAM                | EAST    | SOUTH | WEST  |
|--------------|--------------------|---------|-------|-------|
| 1/29         | $2.3 \times 10^6$  | 43,000  | 9,300 | 230   |
| 1/30         | $1.9 \times 10^6$  | 23,000  | 9,300 | 230   |
| 1/31         | $2.3 \times 10^6$  | 43,000  | 4,300 | 930   |
| 2/ 1         | $2.3 \times 10^6$  | 9,000   | 7,500 | 930   |
| 2/ 6         | $2.3 \times 10^6$  | 15,000  | 2,300 | 430   |
| 2/ 8         | $1.1 \times 10^6$  | 40,000  | 4,100 | 260   |
| 2/11         | $2.6 \times 10^6$  | 34,000  | 3,300 | 330   |
| 2/14         | $0.78 \times 10^6$ | 130,000 | 7,900 | 130   |
| 2/16         | $0.7 \times 10^6$  | 22,000  | 2,700 | 270   |
| 2/19         | $3.3 \times 10^6$  | 79,000  | 2,200 | 1,300 |
| 2/25         | $0.7 \times 10^6$  | 40,000  | 3,400 | 1,100 |
| 2/27         | $0.45 \times 10^6$ | 33,000  | 700   | 490   |
| 3/ 4         | $1.3 \times 10^6$  | 22,000  | 700   | 140   |
| 3/ 7         | $0.45 \times 10^6$ | 14,000  | 1,100 | 40    |
| 3/13         | $0.2 \times 10^6$  | 6,800   | 680   | 45    |
| 3/15         | $2.3 \times 10^6$  | 13,000  | 780   | 45    |
| 3/18         | $0.78 \times 10^6$ | 6,800   | 200   | 45    |
| 3/20         | $1.3 \times 10^6$  | 9,800   | 450   | 110   |
| 3/26         | $1.3 \times 10^6$  | 22,000  | 2,200 | 78    |
| 3/28         | $1.4 \times 10^6$  | 110,000 | 1,100 | 230   |
| 4/ 1         | $0.4 \times 10^6$  | 21,000  | 9,300 | 40    |
| 4/ 2         | $1.5 \times 10^6$  | 93,000  | 2,300 | 40    |
| 4/ 3         | $<0.3 \times 10^6$ | 21,000  | 2,300 | 90    |
| 4/ 4         | $0.4 \times 10^6$  | 21,000  | 700   | 40    |
| 4/ 5         | $0.9 \times 10^6$  | 93,000  | 400   | 40    |
| 4/ 6         | $<0.3 \times 10^6$ | 9,000   | 400   | 40    |
| 4/ 7         | $2.1 \times 10^6$  | 21,000  | 400   | 90    |
| 4/ 8         | $<0.3 \times 10^6$ | 93,000  | 400   | 40    |
| 4/ 9         | $1.5 \times 10^6$  | 75,000  | 400   | <30   |
| 4/10         | $0.4 \times 10^6$  | 43,000  | 400   | 40    |
| 4/11         | $4.3 \times 10^6$  | 150,000 | 930   | -     |
| 4/12         | $4.3 \times 10^6$  | 120,000 | 2,300 | 40    |
| 4/13         | $2.1 \times 10^6$  | 15,000  | 70    | 40    |
| 4/14         | $2.1 \times 10^6$  | 43,000  | 150   | 70    |
| 4/15         | $2.3 \times 10^6$  | 150,000 | 40    | 150   |
| 4/16         | $1.4 \times 10^6$  | 63,000  | 2,100 | 40    |
| 4/17         | $1.5 \times 10^6$  | 23,000  | 2,400 | <30   |
| 4/18         | $2.3 \times 10^6$  | 43,000  | 900   | 90    |
| 4/19         | $0.4 \times 10^6$  | 43,000  | 1,500 | <30   |
| 4/20         | $4.3 \times 10^6$  | 15,000  | 2,300 | 40    |

TABLE A-19. FECAL COLIFORM/100 ml (continued)

| 1975<br>DATE | RAW                | EAST    | SOUTH  | WEST  |
|--------------|--------------------|---------|--------|-------|
| 4/21         | $4.3 \times 10^6$  | 23,000  | 900    | 40    |
| 4/22         | $4.3 \times 10^6$  | 93,000  | 400    | <30   |
| 4/23         | $4.3 \times 10^6$  | 15,000  | 900    | <30   |
| 4/24         | $2.3 \times 10^6$  | 9,000   | 700    | 40    |
| 4/25         | $2.3 \times 10^6$  | 23,000  | 400    | 90    |
| 4/26         | $0.9 \times 10^6$  | 23,000  | 4,300  | 150   |
| 4/27         | $9.3 \times 10^6$  | 23,000  | 1,300  | 390   |
| 4/28         | $7.3 \times 10^6$  | 240,000 | 4,300  | <30   |
| 4/29         | $1.5 \times 10^6$  | 93,000  | 900    | <30   |
| 4/30         | $9.3 \times 10^6$  | 21,000  | 2,300  | 90    |
| 5/ 6         | $4.9 \times 10^6$  | 49,000  | 7,900  | 330   |
| 5/ 9         | $4.9 \times 10^6$  | 49,000  | 2,200  | 40    |
| 5/14         | $1.3 \times 10^6$  | 27,000  | 4,900  | 130   |
| 5/17         | $14 \times 10^6$   | 33,000  | 17,000 | 130   |
| 5/21         | $0.45 \times 10^6$ | 49,000  | 24,000 | 110   |
| 5/23         | $2.3 \times 10^6$  | 70,000  | 92,000 | 2,400 |
| 5/26         | $0.2 \times 10^6$  | 11,000  | 14,000 | 210   |
| 5/29         | $3.3 \times 10^6$  | 49,000  | 11,000 | 20    |
| 6/ 3         | $2.6 \times 10^6$  | 49,000  | 2,700  | 130   |
| 6/ 6         | $3.3 \times 10^6$  | 2,000   | 200    | 20    |
| 6/ 8         | $3.3 \times 10^6$  | 11,000  | 450    | 45    |
| 6/11         | $0.93 \times 10^6$ | 33,000  | 3,300  | 78    |
| 6/16         | $4.9 \times 10^6$  | 49,000  | 780    | 20    |
| 6/20         | $21 \times 10^6$   | 7,800   | 1,100  | 0     |
| 6/24         | -                  | -       | -      | -     |
| 6/28         | $2.6 \times 10^6$  | 4,500   | 4,900  | 640   |
| 7/ 1         | $2.3 \times 10^6$  | 7,000   | 4,300  | <30   |
| 7/ 3         | $2.3 \times 10^6$  | <3,000  | 1,500  | 230   |
| 7/ 3         | $24 \times 10^6$   | 9,000   | 24,000 | 40    |
| 7/ 4         | $0.9 \times 10^6$  | 4,000   | 4,300  | <30   |
| 7/ 5         | $9.3 \times 10^6$  | 23,000  | 1,500  | 40    |
| 7/ 6         | $4.3 \times 10^6$  | 43,000  | 900    | <30   |
| 7/ 7         | $9.3 \times 10^6$  | 4,000   | 400    | <30   |
| 7/ 8         | $15 \times 10^6$   | 400     | 500    | 40    |
| 7/ 9         | $9.3 \times 10^6$  | 4,000   | 400    | 70    |
| 7/10         | $4.3 \times 10^6$  | 29,000  | 2,300  | 90    |
| 7/11         | $2.3 \times 10^6$  | 46,000  | 400    | <30   |
| 7/12         | $4.3 \times 10^6$  | 240,000 | <300   | 40    |
| 7/13         | $4.3 \times 10^6$  | 460,000 | 1,500  | <30   |
| 7/14         | $4.3 \times 10^6$  | 240,000 | 400    | <30   |

TABLE A-19. FECAL COLIFORMS/100 ml (continued)

| 1975<br>DATE | RAW                | EAST    | SOUTH   | WEST |
|--------------|--------------------|---------|---------|------|
| 7/15         | $4.3 \times 10^6$  | 240,000 | <300    | <30  |
| 7/16         | $4.3 \times 10^6$  | 150,000 | <300    | <30  |
| 7/17         | $15 \times 10^6$   | <3,000  | 400     | <30  |
| 7/18         | $4.3 \times 10^6$  | 93,000  | 930     | 40   |
| 7/19         | $9.3 \times 10^6$  | 15,000  | 930     | 230  |
| 7/20         | $4.3 \times 10^6$  | 9,000   | 4,600   | <30  |
| 7/21         | $24 \times 10^6$   | 9,000   | 900     | <30  |
| 7/22         | $4.3 \times 10^6$  | 43,000  | 2,300   | 40   |
| 7/23         | $9.3 \times 10^6$  | 15,000  | <300    | 40   |
| 7/24         | $24 \times 10^6$   | 43,000  | 400     | <30  |
| 7/25         | $2.1 \times 10^6$  | 93,000  | 4,600   | <30  |
| 7/26         | $2.3 \times 10^6$  | 4,000   | 930     | <30  |
| 7/27         | $15 \times 10^6$   | 4,000   | 400     | <30  |
| 7/28         | $9.3 \times 10^6$  | 4,000   | 90      | <30  |
| 7/29         | $24 \times 10^6$   | <3,000  | <24,000 | 40   |
| 7/30         | $9.3 \times 10^6$  | 15,000  | 280     | 230  |
| 8/ 5         | $3.3 \times 10^6$  | 23,000  | 13,000  | <30  |
| 8/ 7         | $1.3 \times 10^6$  | 34,000  | 11,000  | 110  |
| 8/11         | $0.93 \times 10^6$ | 33,000  | 680     | 20   |
| 8/12         | $7.2 \times 10^6$  | 33,000  | <300    | 20   |
| 8/20         | $2.7 \times 10^6$  | 7,800   | 1,100   | 110  |
| 8/22         | $0.7 \times 10^6$  | 11,000  | 450     | 20   |
| 8/26         | $3.4 \times 10^6$  | 220,000 | 7,400   | 110  |
| 8/28         | $7.9 \times 10^6$  | 26,000  | 700     | 0    |

TABLE A-20. SCHEDESHUR  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | 0           | 0            | 0           |
| 9/ 6                       | 0           | 0            | 0           |
| 9/10                       | 0           | 0            | 0           |
| 9/12                       | 2,000       | 1,200        | 2,400       |
| 9/16                       | 2,400       | 3,600        | 1,600       |
| 9/19                       | 4,400       | 400          | 2,400       |
| 9/23                       | 10,400      | 4,000        | 2,000       |
| 9/26                       | 10,000      | 6,000        | 1,200       |
| 10/ 1                      | 10,400      | 8,800        | 400         |
| 10/ 2                      | 8,000       | 4,000        | 4,800       |
| 10/ 3                      | 6,800       | 2,800        | 800         |
| 10/ 4                      | 7,200       | 4,000        | 800         |
| 10/ 5                      | 14,400      | 3,600        | 2,800       |
| 10/ 6                      | 8,000       | 6,000        | 2,400       |
| 10/ 7                      | 12,400      | 7,200        | 800         |
| 10/ 8                      | 12,800      | 4,000        | 3,600       |
| 10/ 9                      | 28,400      | 9,200        | 3,200       |
| 10/10                      | 19,600      | 3,600        | 2,000       |
| 10/11                      | 17,200      | 9,200        | 1,600       |
| 10/12                      | 12,000      | 6,400        | 1,600       |
| 10/13                      | 10,400      | 8,800        | 2,000       |
| 10/14                      | 16,400      | 7,200        | 400         |
| 10/15                      | 16,800      | 5,000        | 800         |
| 10/16                      | 18,000      | 8,000        | 3,200       |
| 10/17                      | 13,600      | 8,400        | 800         |
| 10/18                      | 20,400      | 12,400       | 2,800       |
| 10/19                      | 18,800      | 7,600        | 2,800       |
| 10/21                      | 18,800      | 8,400        | 3,600       |
| 10/21                      | 18,400      | 10,000       | 3,200       |
| 10/22                      | 17,200      | 16,400       | 2,000       |
| 10/23                      | 15,600      | 5,200        | 2,000       |
| 10/24                      | 9,200       | 2,400        | 1,200       |
| 10/25                      | 16,800      | 8,400        | 1,600       |
| 10/26                      | 22,400      | 17,200       | 1,600       |
| 10/27                      | 12,400      | 10,400       | 2,000       |
| 10/28                      | 16,400      | 10,400       | 1,600       |
| 10/29                      | 20,400      | 14,000       | 1,200       |
| 10/30                      | 17,200      | 10,400       | 2,000       |
| 11/ 7                      | 18,800      | 28,000       | 3,200       |
| 11/ 8                      | 27,600      | 21,600       | 6,800       |
| 11/11                      | 28,400      | 18,800       | 7,600       |
| 11/13                      | 38,800      | 25,200       | 9,200       |

TABLE A-20. SCENEDESMUS (continued)  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 11/19                      | 56,000      | 12,400       | 9,200       |
| 11/21                      | 59,600      | 14,400       | 9,600       |
| 11/23                      | 76,800      | 42,800       | 13,600      |
| 11/26                      | 76,400      | 46,400       | 16,800      |
| 12/ 4                      | 74,800      | 31,600       | 27,200      |
| 12/ 6                      | 79,200      | 53,600       | 24,600      |
| 12/ 8                      | 123,600     | 56,400       | 21,200      |
| 12/11                      | 123,200     | 63,200       | 31,200      |
| 12/17                      | 109,200     | 98,800       | 12,400      |
| 12/19                      | 110,000     | 90,400       | 16,400      |
| 12/23                      | 124,400     | 82,800       | 21,200      |
| 12/27                      | 108,000     | 60,000       | 8,400       |
| <u>1975</u>                |             |              |             |
| 1/ 3                       | 119,200     | 53,200       | 32,400      |
| 1/ 4                       | 106,400     | 103,200      | 17,200      |
| 1/ 5                       | 140,400     | 96,800       | 16,400      |
| 1/ 6                       | 109,200     | 69,600       | 16,400      |
| 1/ 7                       | 107,200     | 89,600       | 17,600      |
| 1/ 8                       | 111,600     | 87,600       | 14,400      |
| 1/ 9                       | 108,000     | 108,000      | 29,200      |
| 1/10                       | 99,200      | 98,000       | 21,600      |
| 1/11                       | 146,800     | 76,400       | 17,600      |
| 1/12                       | 120,800     | 39,600       | 27,200      |
| 1/13                       | 113,200     | 73,200       | 23,600      |
| 1/14                       | 124,800     | 71,600       | 30,400      |
| 1/15                       | 128,400     | 63,200       | 23,600      |
| 1/16                       | 134,800     | 74,000       | 19,600      |
| 1/17                       | 121,200     | 77,200       | 26,000      |
| 1/18                       | 140,000     | 92,800       | 22,400      |
| 1/19                       | 134,800     | 75,200       | 33,600      |
| 1/20                       | 122,800     | 63,600       | 22,000      |
| 1/21                       | 136,000     | 124,000      | 31,200      |
| 1/22                       | 119,200     | 76,800       | 34,000      |
| 1/23                       | 150,000     | 74,400       | 41,600      |
| 1/24                       | 136,000     | 89,600       | 43,200      |
| 1/25                       | 169,200     | 71,600       | 43,200      |
| 1/26                       | 132,400     | 84,400       | 40,800      |
| 1/27                       | 166,000     | 89,200       | 45,600      |
| 1/28                       | 150,400     | 105,200      | 80,800      |
| 1/29                       | 141,200     | 111,200      | 71,600      |
| 1/30                       | 138,800     | 123,600      | 72,000      |
| 1/31                       | 135,600     | 106,000      | 52,400      |

TABLE A-20. SCENEDESMUS (continued)  
(count/ml)

| 1975<br>DATE | EAST    | SOUTH   | WEST    |
|--------------|---------|---------|---------|
| 2/ 1         | 120,400 | 88,400  | 42,000  |
| 2/ 6         | 163,200 | 138,000 | 75,200  |
| 2/ 8         | 223,200 | 128,800 | 87,600  |
| 2/11         | 165,200 | 105,200 | 69,200  |
| 2/14         | 127,600 | 108,400 | 22,800  |
| 2/16         | 106,000 | 29,600  | 24,800  |
| 2/19         | 44,000  | 76,000  | 34,400  |
| 2/23         | 229,200 | 82,000  | 49,600  |
| 2/27         | 181,200 | 59,600  | 31,600  |
| 3/ 4         | 184,000 | 102,000 | 560,000 |
| 3/ 7         | 268,000 | 148,000 | 112,000 |
| 3/13         | 66,000  | 22,000  | 10,000  |
| 3/15         | 208,000 | 59,200  | 47,200  |
| 3/18         | 205,600 | 92,000  | 73,000  |
| 3/20         | 164,800 | 51,200  | 38,000  |
| 3/26         | 58,400  | 33,600  | 29,200  |
| 3/28         | 42,400  | 37,200  | 21,200  |
| 4/ 1         | 35,200  | 23,600  | 12,800  |
| 4/ 2         | 34,400  | 12,400  | 20,400  |
| 4/ 3         | 32,800  | 26,000  | 18,400  |
| 4/ 4         | 18,800  | 17,600  | 76,000  |
| 4/ 5         | 21,600  | 16,400  | 16,400  |
| 4/ 6         | 21,600  | 19,600  | 12,800  |
| 4/ 7         | 22,800  | 11,600  | 14,000  |
| 4/ 8         | 18,000  | 13,400  | 15,600  |
| 4/ 9         | 12,400  | 11,600  | 13,200  |
| 4/10         | 19,200  | 7,600   | 14,400  |
| 4/11         | 21,600  | 9,600   | 10,800  |
| 4/12         | 20,800  | 13,600  | 8,400   |
| 4/13         | 9,200   | 6,400   | 12,400  |
| 4/14         | 27,600  | 9,200   | 1,200   |
| 4/15         | 14,800  | 13,200  | 13,600  |
| 4/16         | 16,800  | 11,600  | 5,200   |
| 4/17         | 16,400  | 9,200   | 7,600   |
| 4/18         | 31,200  | 12,400  | 7,600   |
| 4/19         | 23,600  | 10,400  | 6,800   |
| 4/20         | 25,200  | 7,200   | 6,400   |
| 4/21         | 21,200  | 5,600   | 6,400   |
| 4/22         | 41,200  | 6,800   | 5,600   |
| 4/23         | 8,400   | 4,800   | 8,400   |
| 4/24         | 5,600   | 8,400   | 7,600   |



TABLE A-20. SCHEDESHUS (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/25                       | 9,200       | 5,600        | 6,800       |
| 4/26                       | 6,400       | 7,600        | 10,400      |
| 4/27                       | 3,600       | 2,400        | 2,800       |
| 4/28                       | 7,200       | 5,200        | 3,200       |
| 4/29                       | 8,000       | 9,600        | 13,200      |
| 4/30                       | 9,200       | 7,600        | 12,400      |
| 5/ 6                       | 80,000      | 27,200       | 88,000      |
| 5/ 9                       | 20,400      | 64,000       | 164,000     |
| 5/14                       | 14,800      | 57,600       | 140,000     |
| 5/17                       | 26,400      | 83,600       | 74,000      |
| 5/21                       | 34,800      | 172,000      | 72,400      |
| 5/23                       | 54,800      | 100,400      | 19,200      |
| 5/26                       | 61,600      | 132,000      | 12,400      |
| 5/29                       | 56,000      | 62,400       | 20,800      |
| 6/ 3                       | 47,600      | 52,400       | 25,200      |
| 6/ 6                       | 61,600      | 79,600       | 17,200      |
| 6/ 8                       | 44,860      | 35,200       | 15,200      |
| 6/11                       | 20,200      | 23,600       | 19,600      |
| 6/14                       | 65,200      | 54,400       | 7,200       |
| 6/20                       | 31,600      | 39,200       | 12,800      |
| 6/24                       | 28,400      | 40,800       | 11,600      |
| 6/28                       | 58,400      | 21,600       | 7,200       |
| 7/ 1                       | 74,400      | 28,800       | 17,200      |
| 7/ 2                       | 84,800      | 49,600       | 11,200      |
| 7/ 3                       | 66,800      | 45,600       | 5,200       |
| 7/ 4                       | 96,800      | 48,400       | 10,400      |
| 7/ 5                       | 115,200     | 33,600       | 6,800       |
| 7/ 6                       | 91,200      | 48,800       | 9,600       |
| 7/ 7                       | 100,800     | 36,800       | 4,600       |
| 7/ 8                       | 85,200      | 60,800       | 6,800       |
| 7/ 9                       | 69,200      | 27,200       | 4,800       |
| 7/10                       | 55,600      | 29,000       | 3,200       |
| 7/11                       | 86,800      | 18,800       | 6,400       |
| 7/12                       | 66,800      | 13,200       | 12,400      |
| 7/13                       | 75,200      | 16,800       | 5,600       |
| 7/14                       | 57,200      | 6,800        | 6,400       |
| 7/15                       | 49,600      | 14,000       | 9,600       |
| 7/16                       | 49,200      | 10,800       | 6,800       |
| 7/17                       | 57,200      | 20,800       | 2,400       |
| 7/18                       | 74,800      | 26,400       | 2,800       |
| 7/19                       | 133,600     | 18,400       | 7,200       |
| 7/20                       | 140,400     | 30,400       | 3,600       |

TABLE A-20. SCENEDERMUS (continued)  
(count/m<sup>2</sup>)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/21                       | 178,800     | 41,600       | 400         |
| 7/22                       | 123,200     | 41,600       | 800         |
| 7/23                       | 99,200      | 21,600       | 3,200       |
| 7/24                       | 51,600      | 45,200       | 6,400       |
| 7/25                       | 47,200      | 31,600       | 20          |
| 7/26                       | 27,600      | 61,600       | 200         |
| 7/27                       | 32,000      | 44,800       | 41,200      |
| 7/28                       | 27,600      | 40,800       | 4,800       |
| 7/29                       | 31,600      | 25,200       | 4,000       |
| 7/30                       | 25,600      | 30,000       | 6,400       |
| 8/ 5                       | 25,200      | 28,800       | 10,400      |
| 8/ 7                       | 17,200      | 34,800       | 8,400       |
| 8/11                       | 31,600      | 8,400        | 7,200       |
| 8/12                       | 26,800      | 8,800        | 7,600       |
| 8/20                       | 18,800      | 16,400       | 4,400       |
| 8/22                       | 15,200      | 6,800        | 3,200       |
| 8/26                       | 6,800       | 11,200       | 6,400       |
| 8/28                       | 6,800       | 5,200        | 1,600       |

TABLE A-21. CHLORELLA  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | 0           | 0            | 0           |
| 9/ 6                       | 0           | 0            | 0           |
| 9/10                       | 0           | 0            | 0           |
| 9/12                       | 16,800      | 16,000       | 13,200      |
| 9/16                       | 29,200      | 28,000       | 16,800      |
| 9/19                       | 55,200      | 14,400       | 12,800      |
| 9/23                       | 83,200      | 22,800       | 13,200      |
| 9/26                       | 51,600      | 1,400        | 14,000      |
| 10/ 1                      | 76,800      | 30,400       | 16,400      |
| 10/ 2                      | 42,400      | 24,400       | 27,600      |
| 10/ 3                      | 53,600      | 9,200        | 6,000       |
| 10/ 4                      | 58,000      | 22,000       | 2,000       |
| 10/ 5                      | 49,600      | 17,200       | 7,200       |
| 10/ 6                      | 30,800      | 23,600       | 9,200       |
| 10/ 7                      | 32,400      | 23,200       | 7,600       |
| 10/ 8                      | 26,000      | 15,200       | 15,200      |
| 10/ 9                      | 44,000      | 15,600       | 6,800       |
| 10/10                      | 31,200      | 15,200       | 10,400      |
| 10/11                      | 24,400      | 12,400       | 8,000       |
| 10/12                      | 19,200      | 12,000       | 4,800       |
| 10/13                      | 18,000      | 23,600       | 8,400       |
| 10/14                      | 28,800      | 18,400       | 4,400       |
| 10/15                      | 23,600      | 15,200       | 8,400       |
| 10/16                      | 25,600      | 18,000       | 6,800       |
| 10/17                      | 116,000     | 64,000       | 6,800       |
| 10/18                      | 60,400      | 39,600       | 12,400      |
| 10/19                      | 51,200      | 46,400       | 14,800      |
| 10/20                      | 61,600      | 39,200       | 10,800      |
| 10/21                      | 61,200      | 34,800       | 10,000      |
| 10/22                      | 92,400      | 63,600       | 14,400      |
| 10/23                      | 83,600      | 48,800       | 18,000      |
| 10/24                      | 44,600      | 30,800       | 6,400       |
| 10/25                      | 67,200      | 34,400       | 10,400      |
| 10/26                      | 105,200     | 50,400       | 15,200      |
| 10/27                      | 72,800      | 36,400       | 13,200      |
| 10/28                      | 73,200      | 39,600       | 9,200       |
| 10/29                      | 84,800      | 48,400       | 12,000      |
| 10/30                      | 65,200      | 40,400       | 17,600      |
| 11/ 7                      | 102,000     | 80,000       | 20,000      |
| 11/ 8                      | 100,800     | 61,600       | 18,000      |

TABLE A-21. CHLORELLA (continued)  
(COUNT/ML)

| 1974<br>DATE | EAST    | SOUTH   | WEST   |
|--------------|---------|---------|--------|
| 11/11        | 64,400  | 50,000  | 17,600 |
| 11/13        | 74,800  | 42,400  | 18,400 |
| 11/19        | 63,600  | 49,200  | 16,400 |
| 11/21        | 79,200  | 54,400  | 18,400 |
| 11/25        | 72,400  | 38,400  | 7,600  |
| 11/26        | 56,800  | 33,600  | 19,200 |
| 12/ 4        | 52,800  | 39,200  | 13,400 |
| 12/ 6        | 60,000  | 43,600  | 19,400 |
| 12/ 9        | 113,600 | 47,200  | 20,800 |
| 12/11        | 86,800  | 49,200  | 14,000 |
| 12/17        | 58,400  | 30,400  | 6,800  |
| 12/19        | 59,600  | 26,800  | 9,600  |
| 12/23        | 107,200 | 49,600  | 7,600  |
| 12/27        | 30,800  | 12,000  | 3,600  |
| 1975         |         |         |        |
| 1/ 3         | 52,400  | 12,400  | 15,200 |
| 1/ 6         | 66,800  | 24,400  | 7,200  |
| 1/ 8         | 112,800 | 17,200  | 4,000  |
| 1/ 6         | 81,600  | 16,400  | 11,200 |
| 1/ 7         | 80,400  | 14,000  | 10,000 |
| 1/ 8         | 400     | 20,400  | 8,400  |
| 1/ 9         | 101,200 | 27,600  | 14,800 |
| 1/10         | 98,800  | 23,200  | 9,600  |
| 1/11         | 131,200 | 18,800  | 2,400  |
| 1/12         | 111,600 | 11,200  | 7,600  |
| 1/13         | 91,200  | 12,400  | 8,000  |
| 1/14         | 129,200 | 14,400  | 11,600 |
| 1/15         | 109,600 | 15,200  | 6,400  |
| 1/16         | 123,200 | 17,200  | 6,000  |
| 1/17         | 111,600 | 13,200  | 9,600  |
| 1/18         | 130,800 | 14,800  | 7,600  |
| 1/19         | 141,200 | 13,600  | 8,000  |
| 1/20         | 106,600 | 11,600  | 8,600  |
| 1/21         | 164,000 | 72,000  | 16,800 |
| 1/22         | 123,600 | 19,600  | 11,200 |
| 1/23         | 148,800 | 20,800  | 13,200 |
| 1/24         | 140,800 | 40,000  | 18,400 |
| 1/25         | 184,000 | 47,200  | 28,400 |
| 1/26         | 166,000 | 44,800  | 27,200 |
| 1/27         | 204,800 | 156,400 | 32,400 |

TABLE A-21. CHLORELLA (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 1/28                       | 170,000     | 75,200       | 32,800      |
| 1/29                       | 171,600     | 92,800       | 39,200      |
| 1/30                       | 193,600     | 91,200       | 44,000      |
| 1/31                       | 149,200     | 71,600       | 28,800      |
| 2/ 1                       | 146,800     | 62,400       | 36,200      |
| 2/ 6                       | 196,000     | 118,000      | 54,800      |
| 2/ 8                       | 112,000     | 215,200      | 62,000      |
| 2/11                       | 140,000     | 173,400      | 58,400      |
| 2/14                       | 356,000     | 166,000      | 22,000      |
| 2/16                       | 392,000     | 340,000      | 156,000     |
| 2/19                       | 196,800     | 284,000      | 11,200      |
| 2/25                       | 372,000     | 360,000      | 88,000      |
| 2/27                       | 532,000     | 236,000      | 73,600      |
| 3/ 4                       | 660,000     | 360,000      | 92,000      |
| 3/ 7                       | 2,640,000   | 600,000      | 344,000     |
| 3/13                       | 410,000     | 440,000      | 144,000     |
| 3/15                       | 2,760,000   | 920,000      | 176,000     |
| 3/18                       | 3,040,000   | 2,520,000    | 480,000     |
| 3/20                       | 3,200,000   | 2,440,000    | 1,120,000   |
| 3/26                       | 2,920,000   | 1,644,000    | 202,000     |
| 3/28                       | 3,092,000   | 1,320,000    | 236,000     |
| 4/ 1                       | 2,840,000   | 324,000      | 92,000      |
| 4/ 2                       | 3,140,000   | 236,000      | 176,000     |
| 4/ 3                       | 3,360,000   | 112,000      | 48,000      |
| 4/ 4                       | 2,280,000   | 140,000      | 88,000      |
| 4/ 5                       | 1,800,000   | 244,000      | 74,000      |
| 4/ 6                       | 1,240,000   | 140,000      | 76,000      |
| 4/ 7                       | 1,560,000   | 56,800       | 28,400      |
| 4/ 8                       | 1,040,000   | 44,800       | 43,600      |
| 4/ 9                       | 840,000     | 68,000       | 43,000      |
| 4/10                       | 1,080,000   | 484,000      | 43,200      |
| 4/11                       | 1,040,000   | 61,200       | 32,800      |
| 4/12                       | 1,040,000   | 48,400       | 52,800      |
| 4/13                       | 424,000     | 40,400       | 41,600      |
| 4/14                       | 584,000     | 24,800       | 32,400      |
| 4/15                       | 484,000     | 176,000      | 68,000      |
| 4/16                       | 640,000     | 248,000      | 53,600      |
| 4/17                       | 1,200,000   | 54,800       | 51,200      |
| 4/18                       | 960,000     | 37,200       | 60,800      |
| 4/19                       | 736,000     | 53,200       | 59,600      |

TABLE A-21. CHLORELLA (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/20                       | 920,000     | 64,800       | 61,200      |
| 4/21                       | 1,680,000   | 59,200       | 84,000      |
| 4/22                       | 2,760,000   | 61,200       | 800         |
| 4/23                       | 1,480,000   | 32,800       | 72,000      |
| 4/24                       | 60,800      | 53,200       | 58,800      |
| 4/25                       | 288,000     | 62,400       | 72,000      |
| 4/26                       | 172,000     | 100,000      | 64,000      |
| 4/27                       | 132,000     | 70,000       | 43,600      |
| 4/28                       | 305,600     | 116,000      | 89,600      |
| 4/29                       | 620,000     | 332,000      | 152,000     |
| 4/30                       | 456,000     | 260,000      | 308,000     |
| 5/ 6                       | 2,120,000   | 1,440,000    | 312,000     |
| 5/ 9                       | 1,360,000   | 1,760,000    | 192,000     |
| 5/14                       | 812,000     | 224,000      | 72,800      |
| 5/17                       | 1,900,000   | 244,000      | 60,800      |
| 5/21                       | 3,160,000   | 256,000      | 62,000      |
| 5/23                       | 2,560,000   | 1,560,000    | 164,000     |
| 5/26                       | 960,000     | 1,160,000    | 100,800     |
| 5/29                       | 920,000     | 432,000      | 57,200      |
| 6/ 3                       | 336,000     | 144,000      | 47,200      |
| 6/ 6                       | 192,000     | 114,400      | 37,000      |
| 6/ 8                       | 124,000     | 86,000       | 42,800      |
| 6/11                       | 132,000     | 79,200       | 61,200      |
| 6/16                       | 104,800     | 73,400       | 23,200      |
| 6/20                       | 46,400      | 64,800       | 21,200      |
| 6/24                       | 72,800      | 76,800       | 39,200      |
| 6/28                       | 73,600      | 72,400       | 40,400      |
| 7/ 1                       | 60,800      | 54,400       | 23,600      |
| 7/ 2                       | 59,200      | 86,400       | 32,800      |
| 7/ 3                       | 60,400      | 45,200       | 17,600      |
| 7/ 4                       | 39,200      | 54,800       | 24,800      |
| 7/ 5                       | 76,400      | 66,400       | 16,800      |
| 7/ 6                       | 64,400      | 60,400       | 26,400      |
| 7/ 7                       | 68,800      | 41,200       | 16,800      |
| 7/ 8                       | 81,600      | 39,600       | 13,600      |
| 7/ 9                       | 86,800      | 52,800       | 44,800      |
| 7/10                       | 84,800      | 28,400       | 23,800      |
| 7/11                       | 104,400     | 39,600       | 32,800      |
| 7/12                       | 115,600     | 26,800       | 40,800      |
| 7/13                       | 105,600     | 38,800       | 38,000      |



TABLE A-21. CHLORELLA (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/14                       | 103,600     | 29,200       | 32,400      |
| 7/15                       | 108,400     | 29,200       | 14,000      |
| 7/16                       | 61,200      | 34,400       | 25,200      |
| 7/17                       | 92,000      | 39,200       | 35,600      |
| 7/18                       | 81,200      | 43,200       | 35,600      |
| 7/19                       | 107,200     | 26,800       | 23,600      |
| 7/20                       | 134,000     | 62,000       | 28,700      |
| 7/21                       | 116,000     | 85,200       | 14,400      |
| 7/22                       | 81,600      | 95,600       | 16,800      |
| 7/23                       | 102,000     | 35,200       | 24,800      |
| 7/24                       | 47,200      | 37,200       | 40,800      |
| 7/25                       | 54,400      | 29,200       | 29,600      |
| 7/26                       | 59,200      | 46,800       | 42,400      |
| 7/27                       | 53,600      | 51,600       | 32,800      |
| 7/28                       | 58,000      | 60,000       | 49,200      |
| 7/29                       | 33,600      | 34,800       | 30,400      |
| 7/30                       | 44,800      | 56,000       | 60,800      |
| 8/ 5                       | 42,400      | 87,600       | 40,400      |
| 8/ 7                       | 35,600      | 43,600       | 36,400      |
| 8/11                       | 41,200      | 56,400       | 55,200      |
| 8/12                       | 43,200      | 24,800       | 50,400      |
| 8/20                       | 46,400      | 88,400       | 48,400      |
| 8/22                       | 56,400      | 58,800       | 58,000      |
| 8/26                       | 50,800      | 56,800       | 29,600      |
| 8/28                       | 54,800      | 34,400       | 36,400      |

TABLE A-22. ACTINASTRUM  
(count/g1)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | 0           | 0            | 0           |
| 9/ 6                       | 0           | 0            | 0           |
| 9/10                       | 0           | 0            | 0           |
| 9/12                       | 1,200       | 1,200        | 0           |
| 9/16                       | 3,200       | 2,000        | 800         |
| 9/19                       | 16,000      | 5,600        | 400         |
| 9/23                       | 14,000      | 4,400        | 3,000       |
| 9/26                       | 21,200      | 4,800        | 800         |
| 10/ 1                      | 11,200      | 2,000        | 1,200       |
| 10/ 2                      | 10,000      | 2,000        | 2,400       |
| 10/ 3                      | 14,400      | 2,000        | 800         |
| 10/ 4                      | 21,600      | 400          | 0           |
| 10/ 5                      | 17,200      | 2,000        | 400         |
| 10/ 6                      | 15,200      | 4,400        | 0           |
| 10/ 7                      | 14,800      | 1,600        | 400         |
| 10/ 8                      | 9,600       | 1,600        | 400         |
| 10/ 9                      | 15,600      | 1,600        | 800         |
| 10/10                      | 14,800      | 2,000        | 800         |
| 10/11                      | 9,200       | 1,600        | 400         |
| 10/12                      | 7,200       | 2,000        | 800         |
| 10/13                      | 8,000       | 2,400        | 400         |
| 10/14                      | 7,600       | 2,400        | 400         |
| 10/15                      | 13,200      | 3,200        | 800         |
| 10/16                      | 9,200       | 3,200        | 1,600       |
| 10/17                      | 10,400      | 6,400        | 0           |
| 10/18                      | 18,000      | 10,000       | 2,000       |
| 10/19                      | 8,400       | 6,800        | 800         |
| 10/20                      | 3,200       | 9,600        | 2,000       |
| 10/21                      | 16,400      | 10,000       | 1,200       |
| 10/22                      | 16,000      | 5,200        | 0           |
| 10/23                      | 10,400      | 800          | 1,600       |
| 10/24                      | 11,600      | 4,400        | 400         |
| 10/25                      | 18,400      | 12,400       | 1,200       |
| 10/26                      | 18,400      | 8,400        | 800         |
| 10/27                      | 12,800      | 7,600        | 2,000       |
| 10/28                      | 20,800      | 8,000        | 1,200       |
| 10/29                      | 16,800      | 10,800       | 2,000       |
| 10/30                      | 20,000      | 7,600        | 1,600       |
| 11/ 7                      | 21,600      | 5,600        | 0           |
| 11/ 8                      | 22,000      | 10,800       | 1,600       |
| 11/11                      | 25,600      | 6,800        | 4,000       |

TABLE A-22. ACTINABATRUM (continued)  
(count/ml)

| 1974<br>DATE | EAST   | SOUTH  | WEST  |
|--------------|--------|--------|-------|
| 11/13        | 15,200 | 13,200 | 500   |
| 11/19        | 6,800  | 5,600  | 2,500 |
| 11/21        | 7,200  | 4,500  | 1,200 |
| 11/23        | 3,600  | 2,000  | 2,800 |
| 11/26        | 6,400  | 2,800  | 800   |
| 12/ 4        | 4,500  | 6,500  | 2,800 |
| 12/ 6        | 4,800  | 1,600  | 2,800 |
| 12/ 9        | 4,800  | 1,600  | 2,000 |
| 12/11        | 3,200  | 3,200  | 800   |
| 12/17        | 2,800  | 2,000  | 400   |
| 12/19        | 0      | 500    | 400   |
| 12/23        | 400    | 1,600  | 0     |
| 12/27        | 0      | 0      | 400   |
| 1975         |        |        |       |
| 1/ 3         | 0      | 0      | 0     |
| 1/ 4         | 0      | 0      | 0     |
| 1/ 5         | 0      | 0      | 0     |
| 1/ 6         | 0      | 0      | 0     |
| 1/ 7         | 0      | 0      | 0     |
| 1/ 8         | 0      | 0      | 0     |
| 1/ 9         | 0      | 0      | 0     |
| 1/10         | 0      | 0      | 0     |
| 1/11         | 0      | 0      | 0     |
| 1/12         | 0      | 0      | 0     |
| 1/13         | 0      | 0      | 0     |
| 1/14         | 0      | 0      | 0     |
| 1/15         | 0      | 0      | 0     |
| 1/16         | 0      | 0      | 0     |
| 1/17         | 0      | 0      | 0     |
| 1/18         | 0      | 0      | 0     |
| 1/19         | 0      | 0      | 0     |
| 1/20         | 0      | 0      | 0     |
| 1/21         | 0      | 0      | 0     |
| 1/22         | 0      | 0      | 0     |
| 1/23         | 0      | 0      | 0     |
| 1/24         | 0      | 0      | 0     |
| 1/25         | 0      | 0      | 0     |
| 1/26         | 0      | 0      | 0     |
| 1/27         | 0      | 0      | 0     |
| 1/28         | 0      | 0      | 0     |
| 1/29         | 0      | 0      | 0     |
| 1/30         | 0      | 0      | 0     |

TABLE A-22. ACTINARIUM (continued)  
(count/ml)

| 1975<br>DATE | EAST | SOUTH | WEST  |
|--------------|------|-------|-------|
| 1/31         | 0    | 0     | 0     |
| 2/ 1         | 0    | 0     | 0     |
| 2/ 6         | 0    | 0     | 0     |
| 2/ 8         | 0    | 0     | 0     |
| 2/11         | 0    | 0     | 0     |
| 2/14         | 0    | 0     | 0     |
| 2/16         | 0    | 0     | 0     |
| 2/19         | 0    | 0     | 0     |
| 2/25         | 0    | 0     | 0     |
| 2/27         | 0    | 0     | 0     |
| 3/ 4         | 0    | 0     | 0     |
| 3/ 7         | 0    | 0     | 0     |
| 3/13         | 0    | 0     | 0     |
| 3/15         | 0    | 0     | 0     |
| 3/18         | 0    | 0     | 0     |
| 3/20         | 0    | 0     | 0     |
| 3/26         | 0    | 0     | 0     |
| 3/28         | 0    | 0     | 0     |
| 4/ 1         | 0    | 0     | 0     |
| 4/ 2         | 0    | 0     | 0     |
| 4/ 3         | 0    | 1,200 | 0     |
| 4/ 4         | 0    | 0     | 0     |
| 4/ 5         | 0    | 0     | 400   |
| 4/ 6         | 0    | 0     | 0     |
| 4/ 7         | 0    | 0     | 1,200 |
| 4/ 8         | 0    | 0     | 0     |
| 4/ 9         | 0    | 0     | 0     |
| 4/10         | 0    | 800   | 400   |
| 4/11         | 0    | 0     | 0     |
| 4/12         | 0    | 0     | 0     |
| 4/13         | 0    | 0     | 0     |
| 4/14         | 0    | 0     | 0     |
| 4/15         | 0    | 0     | 0     |
| 4/16         | 0    | 0     | 0     |
| 4/17         | 0    | 0     | 0     |
| 4/18         | 0    | 0     | 0     |
| 4/19         | 0    | 0     | 0     |
| 4/20         | 0    | 0     | 0     |
| 4/21         | 0    | 0     | 0     |
| 4/22         | 0    | 0     | 0     |
| 4/23         | 0    | 0     | 0     |
| 4/24         | 0    | 0     | 0     |

TABLE A-22. ACTINASTRUM (continued)  
(count/ml)

| <u>1973</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/25                       | 0           | 0            | 0           |
| 4/26                       | 0           | 0            | 0           |
| 4/27                       | 0           | 0            | 0           |
| 4/28                       | 0           | 0            | 0           |
| 4/29                       | 0           | 0            | 0           |
| 4/30                       | 0           | 0            | 0           |
| 5/ 6                       | 2,400       | 3,600        | 1,200       |
| 5/ 9                       | 7,600       | 6,400        | 6,800       |
| 5/14                       | 4,400       | 800          | 1,600       |
| 5/17                       | 3,200       | 1,200        | 1,600       |
| 5/21                       | 4,800       | 1,600        | 1,200       |
| 5/23                       | 4,800       | 1,600        | 1,200       |
| 5/26                       | 6,400       | 5,600        | 1,600       |
| 5/29                       | 10,400      | 4,000        | 800         |
| 6/ 3                       | 11,200      | 6,400        | 6,800       |
| 6/ 6                       | 6,800       | 3,200        | 2,800       |
| 6/ 8                       | 1,600       | 1,600        | 1,600       |
| 6/11                       | 5,200       | 4,400        | 1,600       |
| 6/16                       | 11,200      | 1,600        | 3,600       |
| 6/20                       | 8,800       | 1,600        | 3,600       |
| 6/24                       | 5,200       | 4,800        | 1,600       |
| 6/28                       | 800         | 8,000        | 1,600       |
| 7/ 1                       | 3,600       | 1,600        | 5,200       |
| 7/ 2                       | 0           | 5,200        | 1,200       |
| 7/ 3                       | 5,600       | 2,800        | 0           |
| 7/ 4                       | 4,000       | 3,200        | 3,600       |
| 7/ 5                       | 3,200       | 6,400        | 800         |
| 7/ 6                       | 2,000       | 6,400        | 1,200       |
| 7/ 7                       | 5,200       | 1,200        | 800         |
| 7/ 8                       | 2,800       | 5,600        | 1,200       |
| 7/ 9                       | 2,400       | 0            | 800         |
| 7/10                       | 1,200       | 4,800        | 800         |
| 7/11                       | 4,400       | 1,200        | 800         |
| 7/12                       | 5,600       | 4,800        | 1,200       |
| 7/13                       | 2,800       | 6,400        | 3,200       |
| 7/14                       | 2,000       | 5,600        | 1,600       |
| 7/15                       | 6,800       | 2,000        | 5,200       |
| 7/16                       | 1,600       | 1,600        | 3,200       |
| 7/17                       | 1,600       | 2,000        | 1,600       |
| 7/18                       | 1,600       | 6,800        | 7,600       |
| 7/19                       | 1,600       | 1,600        | 7,600       |

TABLE A-22. ACTINARIUM (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/20                       | 4,800       | 4,600        | 3,200       |
| 7/21                       | 8,000       | 2,700        | 0           |
| 7/22                       | 7,600       | 4,000        | 1,600       |
| 7/23                       | 7,600       | 2,400        | 2,400       |
| 7/24                       | 6,000       | 3,200        | 2,000       |
| 7/25                       | 1,600       | 2,000        | 800         |
| 7/26                       | 800         | 4,400        | 3,600       |
| 7/27                       | 4,400       | 3,600        | 3,200       |
| 7/28                       | 8,000       | 4,800        | 3,200       |
| 7/29                       | 2,400       | 1,600        | 400         |
| 7/30                       | 3,600       | 4,000        | 4,800       |
| 8/ 3                       | 4,400       | 6,400        | 4,000       |
| 8/ 7                       | 7,200       | 3,200        | 3,200       |
| 8/11                       | 2,800       | 6,400        | 4,400       |
| 8/12                       | 4,400       | 4,400        | 6,400       |
| 8/20                       | 3,200       | 2,000        | 800         |
| 8/22                       | 3,200       | 1,200        | 2,800       |
| 8/26                       | 3,200       | 2,800        | 1,600       |
| 8/28                       | 800         | 1,600        | 2,000       |



TABLE 23. ANKISTRODESMUS  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | 0           | 0            | 0           |
| 9/ 6                       | 0           | 0            | 0           |
| 9/10                       | 0           | 0            | 0           |
| 9/12                       | 1,400       | 400          | 400         |
| 9/16                       | 0           | 800          | 0           |
| 9/19                       | 4,000       | 1,200        | 800         |
| 9/24                       | 2,000       | 800          | 0           |
| 9/26                       | 400         | 0            | 0           |
| 10/ 1                      | 400         | 400          | 400         |
| 10/ 2                      | 0           | 0            | 0           |
| 10/ 3                      | 4,000       | 0            | 0           |
| 10/ 4                      | 9,200       | 800          | 0           |
| 10/ 5                      | 2,800       | 2,400        | 1,200       |
| 10/ 6                      | 2,800       | 0            | 800         |
| 10/ 7                      | 1,200       | 1,200        | 1,200       |
| 10/ 8                      | 1,200       | 800          | 1,200       |
| 10/ 9                      | 4,800       | 4,000        | 2,800       |
| 10/10                      | 4,000       | 1,200        | 1,600       |
| 10/11                      | 4,000       | 7,600        | 2,800       |
| 10/12                      | 0           | 4,400        | 800         |
| 10/13                      | 1,600       | 3,600        | 3,600       |
| 10/14                      | 3,600       | 3,200        | 1,200       |
| 10/15                      | 6,000       | 4,800        | 1,200       |
| 10/16                      | 5,600       | 6,000        | 2,800       |
| 10/17                      | 10,400      | 3,600        | 1,200       |
| 10/18                      | 12,400      | 17,200       | 4,000       |
| 10/19                      | 9,200       | 10,400       | 1,200       |
| 10/20                      | 13,200      | 14,000       | 1,200       |
| 10/21                      | 14,400      | 7,200        | 4,000       |
| 10/22                      | 9,200       | 16,000       | 1,200       |
| 10/23                      | 12,800      | 10,800       | 2,000       |
| 10/24                      | 8,400       | 3,600        | 400         |
| 10/25                      | 18,800      | 3,200        | 3,600       |
| 10/26                      | 14,800      | 12,800       | 3,200       |
| 10/27                      | 12,800      | 12,800       | 6,800       |
| 10/28                      | 13,600      | 7,200        | 3,200       |
| 10/29                      | 12,400      | 7,200        | 1,200       |
| 10/30                      | 9,200       | 11,600       | 7,200       |
| 11/ 7                      | 4,800       | 14,400       | 4,000       |
| 11/ 8                      | 9,600       | 12,000       | 3,200       |
| 11/11                      | 12,400      | 8,400        | 6,800       |

TABLE A-23. AMELISTRODESMUS (continued)  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 11/13                      | 15,600      | 9,600        | 3,200       |
| 11/19                      | 11,600      | 9,200        | 5,200       |
| 11/21                      | 14,400      | 4,400        | 4,800       |
| 11/23                      | 12,400      | 9,600        | 6,800       |
| 11/26                      | 11,600      | 7,200        | 4,800       |
| 12/ 4                      | 14,400      | 10,400       | 5,200       |
| 12/ 6                      | 10,400      | 7,600        | 6,800       |
| 12/ 9                      | 14,400      | 10,800       | 5,200       |
| 12/11                      | 12,400      | 5,600        | 4,800       |
| 12/17                      | 8,400       | 8,000        | 3,600       |
| 12/19                      | 11,200      | 8,800        | 3,600       |
| 12/23                      | 6,800       | 9,600        | 3,600       |
| 12/27                      | 0           | 3,200        | 0           |
| <u>1975</u>                |             |              |             |
| 1/ 3                       | 1,600       | 0            | 1,200       |
| 1/ 4                       | 2,800       | 0            | 0           |
| 1/ 5                       | 0           | 0            | 0           |
| 1/ 6                       | 0           | 0            | 0           |
| 1/ 7                       | 0           | 0            | 0           |
| 1/ 8                       | 0           | 0            | 0           |
| 1/ 9                       | 0           | 0            | 0           |
| 1/10                       | 0           | 0            | 0           |
| 1/11                       | 0           | 0            | 0           |
| 1/12                       | 0           | 0            | 0           |
| 1/13                       | 0           | 0            | 0           |
| 1/14                       | 0           | 0            | 0           |
| 1/15                       | 0           | 0            | 0           |
| 1/16                       | 0           | 0            | 0           |
| 1/17                       | 0           | 0            | 0           |
| 1/18                       | 0           | 0            | 0           |
| 1/19                       | 0           | 0            | 0           |
| 1/20                       | 0           | 0            | 0           |
| 1/21                       | 0           | 0            | 0           |
| 1/22                       | 0           | 0            | 0           |
| 1/23                       | 0           | 0            | 0           |
| 1/24                       | 0           | 0            | 0           |
| 1/25                       | 0           | 0            | 0           |
| 1/26                       | 0           | 0            | 0           |
| 1/27                       | 0           | 0            | 0           |
| 1/28                       | 0           | 0            | 0           |
| 1/29                       | 0           | 0            | 0           |
| 1/30                       | 0           | 0            | 0           |

TABLE A-23. ARKISTRODERMUS (continued)  
(count/ml)

| <u>1973</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 1/31                       | 0           | 0            | 0           |
| 2/ 1                       | 0           | 0            | 0           |
| 2/ 6                       | 0           | 0            | 0           |
| 2/ 8                       | 0           | 0            | 0           |
| 2/11                       | 0           | 0            | 0           |
| 2/14                       | 0           | 0            | 0           |
| 2/16                       | 0           | 0            | 0           |
| 2/19                       | 0           | 0            | 0           |
| 2/25                       | 0           | 0            | 0           |
| 2/27                       | 0           | 0            | 0           |
| 3/ 4                       | 0           | 0            | 0           |
| 3/ 7                       | 0           | 0            | 0           |
| 3/13                       | 0           | 0            | 0           |
| 3/15                       | 0           | 0            | 0           |
| 3/18                       | 0           | 0            | 0           |
| 3/20                       | 0           | 0            | 0           |
| 3/26                       | 0           | 0            | 0           |
| 3/28                       | 0           | 0            | 0           |
| 4/ 1                       | 0           | 0            | 0           |
| 4/ 2                       | 0           | 0            | 0           |
| 4/ 3                       | 0           | 0            | 0           |
| 4/ 4                       | 0           | 0            | 0           |
| 4/ 5                       | 0           | 0            | 0           |
| 4/ 6                       | 0           | 0            | 0           |
| 4/ 7                       | 0           | 0            | 0           |
| 4/ 8                       | 0           | 0            | 0           |
| 4/ 9                       | 0           | 0            | 0           |
| 4/10                       | 0           | 0            | 0           |
| 4/11                       | 0           | 0            | 0           |
| 4/12                       | 0           | 0            | 0           |
| 4/13                       | 0           | 0            | 0           |
| 4/14                       | 0           | 0            | 0           |
| 4/15                       | 0           | 0            | 0           |
| 4/16                       | 0           | 0            | 0           |
| 4/17                       | 0           | 0            | 0           |
| 4/18                       | 0           | 0            | 0           |
| 4/19                       | 0           | 0            | 0           |
| 4/20                       | 0           | 0            | 0           |
| 4/21                       | 0           | 0            | 0           |
| 4/22                       | 0           | 0            | 0           |
| 4/23                       | 0           | 0            | 0           |

TABLE A-21. AMELISTRODERMUS (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST  |
|--------------|-------|-------|-------|
| 4/24         | 0     | 0     | 0     |
| 4/25         | 0     | 0     | 0     |
| 4/26         | 0     | 0     | 0     |
| 4/27         | 0     | 0     | 0     |
| 4/28         | 0     | 0     | 0     |
| 4/29         | 0     | 0     | 0     |
| 4/30         | 0     | 0     | 0     |
| 5/ 6         | 800   | 2,800 | 400   |
| 5/ 9         | 0     | 2,400 | 2,400 |
| 5/14         | 0     | 0     | 0     |
| 5/17         | 0     | 0     | 0     |
| 5/21         | 0     | 3,200 | 0     |
| 5/23         | 4,400 | 1,200 | 0     |
| 5/26         | 2,800 | 3,600 | 0     |
| 5/29         | 2,400 | 3,200 | 1,200 |
| 6/ 3         | 3,600 | 3,200 | 4,000 |
| 6/ 6         | 0     | 4,800 | 2,000 |
| 6/ 8         | 5,600 | 7,200 | 4,000 |
| 6/11         | 6,400 | 4,000 | 2,400 |
| 6/16         | 3,600 | 3,600 | 0     |
| 6/20         | 0     | 7,200 | 1,200 |
| 6/24         | 0     | 4,400 | 2,000 |
| 6/28         | 5,200 | 0     | 2,400 |
| 7/ 1         | 3,800 | 3,600 | 1,200 |
| 7/ 2         | 6,000 | 0     | 4,400 |
| 7/ 3         | 2,400 | 1,600 | 800   |
| 7/ 4         | 2,000 | 2,400 | 3,200 |
| 7/ 5         | 7,600 | 4,400 | 3,000 |
| 7/ 6         | 1,600 | 3,600 | 6,000 |
| 7/ 7         | 7,600 | 0     | 3,200 |
| 7/ 8         | 3,200 | 6,000 | 3,600 |
| 7/ 9         | 7,200 | 3,200 | 1,200 |
| 7/10         | 3,200 | 2,000 | 1,200 |
| 7/11         | 3,600 | 2,800 | 2,000 |
| 7/12         | 6,000 | 1,200 | 2,000 |
| 7/13         | 4,000 | 2,000 | 4,000 |
| 7/14         | 0     | 6,000 | 1,600 |
| 7/15         | 0     | 4,000 | 3,600 |
| 7/16         | 1,200 | 2,400 | 6,000 |
| 7/17         | 2,000 | 3,300 | 1,600 |
| 7/18         | 8,000 | 4,400 | 7,200 |
| 7/19         | 8,400 | 4,000 | 1,200 |

TABLE A-23. AMELISTRODERMUS (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST   |
|--------------|-------|-------|--------|
| 7/20         | 3,600 | 4,400 | 4,000  |
| 7/21         | 4,400 | 3,600 | 1,600  |
| 7/22         | 0     | 4,000 | 800    |
| 7/23         | 0     | 4,800 | 3,600  |
| 7/24         | 0     | 2,400 | 6,000  |
| 7/25         | 5,200 | 0     | 5,200  |
| 7/26         | 2,000 | 1,600 | 0      |
| 7/27         | 3,600 | 1,600 | 2,800  |
| 7/28         | 3,200 | 4,800 | 2,400  |
| 7/29         | 800   | 3,600 | 1,600  |
| 7/30         | 2,400 | 6,400 | 10,400 |
| 8/ 5         | 2,800 | 0     | 0      |
| 8/ 7         | 1,600 | 6,400 | 0      |
| 8/11         | 4,800 | 4,000 | 1,600  |
| 8/12         | 3,600 | 6,000 | 2,000  |
| 8/20         | 1,200 | 7,200 | 1,600  |
| 8/22         | 4,000 | 6,000 | 0      |
| 8/26         | 1,200 | 2,000 | 3,600  |
| 8/28         | 0     | 1,600 | 0      |

TABLE A-2G. MICROACTINIUM  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | 0           | 0            | 0           |
| 9/ 6                       | 0           | 0            | 0           |
| 9/10                       | 0           | 0            | 0           |
| 9/12                       | 400         | 400          | 0           |
| 9/16                       | 0           | 600          | 0           |
| 9/19                       | 0           | 0            | 0           |
| 9/24                       | 0           | 0            | 0           |
| 9/26                       | 0           | 0            | 0           |
| 10/ 1                      | 200         | 2,800        | 2,400       |
| 10/ 2                      | 1,600       | 0            | 0           |
| 10/ 3                      | 1,600       | 2,000        | 0           |
| 10/ 4                      | 1,600       | 400          | 0           |
| 10/ 5                      | 800         | 400          | 0           |
| 10/ 6                      | 800         | 0            | 0           |
| 10/ 7                      | 0           | 0            | 0           |
| 10/ 8                      | 0           | 0            | 0           |
| 10/ 9                      | 0           | 0            | 0           |
| 10/10                      | 0           | 0            | 0           |
| 10/11                      | 0           | 0            | 0           |
| 10/12                      | 0           | 0            | 0           |
| 10/13                      | 0           | 0            | 0           |
| 10/14                      | 0           | 0            | 0           |
| 10/15                      | 0           | 0            | 0           |
| 10/16                      | 0           | 0            | 0           |
| 10/17                      | 0           | 0            | 0           |
| 10/18                      | 0           | 0            | 0           |
| 10/19                      | 0           | 0            | 0           |
| 10/20                      | 0           | 0            | 0           |
| 10/21                      | 0           | 0            | 0           |
| 10/22                      | 0           | 0            | 0           |
| 10/23                      | 0           | 0            | 0           |
| 10/24                      | 0           | 0            | 0           |
| 10/25                      | 0           | 0            | 0           |
| 10/26                      | 0           | 0            | 0           |
| 10/27                      | 0           | 0            | 0           |
| 10/28                      | 0           | 0            | 0           |
| 10/29                      | 0           | 0            | 0           |
| 10/30                      | 0           | 0            | 0           |
| 11/ 7                      | 0           | 0            | 0           |
| 11/ 8                      | 0           | 0            | 0           |



TABLE A-24: MICROACTINIUM (continued)  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 11/11                      | 0           | 0            | 0           |
| 11/13                      | 0           | 0            | 0           |
| 11/19                      | 0           | 0            | 0           |
| 11/21                      | 0           | 0            | 0           |
| 11/25                      | 0           | 0            | 0           |
| 11/26                      | 0           | 0            | 0           |
| 12/ 4                      | 0           | 0            | 0           |
| 12/ 6                      | 0           | 0            | 0           |
| 12/ 9                      | 0           | 0            | 0           |
| 12/11                      | 0           | 0            | 0           |
| 12/17                      | 0           | 0            | 0           |
| 12/19                      | 0           | 0            | 0           |
| 12/23                      | 0           | 0            | 0           |
| 12/27                      | 0           | 0            | 0           |
| 1/ 3                       | 0           | 0            | 0           |
| 1/ 4                       | 0           | 0            | 0           |
| 1/ 5                       | 0           | 0            | 0           |
| 1/ 6                       | 0           | 0            | 0           |
| 1/ 7                       | 0           | 0            | 0           |
| 1/ 8                       | 0           | 0            | 0           |
| 1/ 9                       | 0           | 0            | 0           |
| 1/10                       | 0           | 0            | 0           |
| 1/11                       | 0           | 0            | 0           |
| 1/12                       | 0           | 0            | 0           |
| 1/13                       | 0           | 0            | 0           |
| 1/14                       | 0           | 0            | 0           |
| 1/15                       | 0           | 0            | 0           |
| 1/16                       | 0           | 0            | 0           |
| 1/17                       | 0           | 0            | 0           |
| 1/18                       | 0           | 0            | 0           |
| 1/19                       | 0           | 0            | 0           |
| 1/20                       | 0           | 0            | 0           |
| 1/21                       | 0           | 0            | 0           |
| 1/22                       | 0           | 0            | 0           |
| 1/23                       | 0           | 0            | 0           |
| 1/24                       | 0           | 0            | 0           |
| 1/25                       | 0           | 0            | 0           |
| 1/26                       | 0           | 0            | 0           |
| 1/27                       | 0           | 0            | 0           |
| 1/28                       | 0           | 0            | 0           |
| 1/29                       | 0           | 0            | 0           |
| 1/30                       | 0           | 0            | 0           |

TABLE A-24. MICROACTINIUM (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
|                            | 0           | 0            | 0           |
| 1/31                       | 0           | 0            | 0           |
| 2/ 1                       | 0           |              |             |
|                            |             | 0            | 0           |
| 2/ 6                       | 0           | 0            | 0           |
| 3/ 8                       | 0           | 0            | 0           |
| 2/11                       | 0           | 0            | 0           |
| 2/14                       | 0           | 0            | 0           |
| 2/16                       | 0           | 0            | 0           |
| 2/19                       | 0           | 0            | 0           |
| 2/25                       | 0           | 0            | 0           |
| 2/27                       | 0           |              |             |
|                            |             | 0            | 0           |
| 3/ 4                       | 0           | 0            | 0           |
| 3/ 7                       | 0           | 0            | 0           |
| 3/13                       | 0           | 0            | 0           |
| 3/15                       | 0           | 0            | 0           |
| 3/18                       | 0           | 0            | 0           |
| 3/20                       | 0           | 0            | 0           |
| 3/26                       | 0           | 0            | 0           |
| 3/28                       | 0           |              |             |
|                            |             | 0            | 0           |
| 4/ 1                       | 0           | 2,800        | 4,400       |
| 4/ 2                       | 0           | 2,800        | 3,200       |
| 4/ 3                       | 0           | 2,000        | 800         |
| 4/ 4                       | 800         |              | 2,000       |
| 4/ 5                       | 0           | 0            | 0           |
| 4/ 6                       | 0           | 0            | 7,200       |
| 4/ 7                       | 0           | 6,800        | 2,800       |
| 4/ 8                       | 2,000       | 800          | 0           |
| 4/ 9                       | 0           | 4,000        | 1,600       |
| 4/10                       | 3,600       | 2,800        | 1,600       |
| 4/11                       | 4,800       | 3,200        | 2,800       |
| 4/12                       | 0           | 0            | 1,600       |
| 4/13                       | 1,200       | 0            | 1,200       |
| 4/14                       | 2,400       | 1,200        | 0           |
| 4/15                       | 800         | 0            | 0           |
| 4/16                       | 2,000       | 0            | 4,400       |
| 4/17                       | 3,200       | 1,600        | 800         |
| 4/18                       | 400         | 800          | 0           |
| 4/19                       | 4,800       | 800          | 400         |
| 4/20                       | 2,800       | 800          | 2,800       |
| 4/21                       | 1,200       | 1,200        | 0           |
| 4/22                       | 1,600       | 0            |             |

TABLE A-24. MICROACTINIUM (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST  |
|--------------|-------|-------|-------|
| 4/23         | 2,400 | 1,200 | 400   |
| 4/24         | 2,800 | 800   | 800   |
| 4/25         | 4,000 | 800   | 400   |
| 4/26         | 4,400 | 0     | 3,600 |
| 4/27         | 2,800 | 0     | 800   |
| 4/28         | 800   | 0     | 0     |
| 4/29         | 0     | 0     | 0     |
| 4/30         | 0     | 0     | 0     |
| 5/ 6         | 0     | 800   | 0     |
| 5/ 9         | 800   | 0     | 0     |
| 5/14         | 2,800 | 1,600 | 1,600 |
| 5/17         | 3,600 | 0     | 0     |
| 5/41         | 1,600 | 3,200 | 1,600 |
| 5/23         | 0     | 0     | 0     |
| 5/26         | 0     | 0     | 0     |
| 5/29         | 0     | 0     | 0     |
| 6/ 3         | 0     | 0     | 0     |
| 6/ 6         | 0     | 0     | 0     |
| 6/ 8         | 0     | 0     | 0     |
| 6/11         | 0     | 0     | 0     |
| 6/16         | 0     | 0     | 0     |
| 6/20         | 0     | 0     | 0     |
| 6/24         | 0     | 0     | 0     |
| 6/28         | 0     | 0     | 0     |
| 7/ 1         | 0     | 0     | 0     |
| 7/ 2         | 0     | 0     | 0     |
| 7/ 3         | 0     | 0     | 0     |
| 7/ 4         | 0     | 0     | 0     |
| 7/ 5         | 0     | 0     | 0     |
| 7/ 6         | 0     | 0     | 0     |
| 7/ 7         | 0     | 0     | 0     |
| 7/ 8         | 0     | 0     | 0     |
| 7/ 9         | 0     | 0     | 0     |
| 7/10         | 0     | 0     | 0     |
| 7/11         | 0     | 0     | 0     |
| 7/12         | 0     | 0     | 0     |
| 7/13         | 0     | 0     | 0     |
| 7/14         | 0     | 0     | 0     |
| 7/15         | 0     | 0     | 0     |
| 7/16         | 0     | 0     | 0     |
| 7/17         | 0     | 0     | 0     |

TABLE A-24. MICROACTINIUM (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/18                       | 0           | 0            | 0           |
| 7/19                       | 0           | 0            | 0           |
| 7/20                       | 0           | 0            | 0           |
| 7/21                       | 0           | 0            | 0           |
| 7/22                       | 0           | 0            | 0           |
| 7/23                       | 0           | 0            | 0           |
| 7/24                       | 0           | 0            | 0           |
| 7/25                       | 0           | 0            | 0           |
| 7/26                       | 0           | 0            | 0           |
| 7/27                       | 0           | 0            | 0           |
| 7/28                       | 0           | 0            | 0           |
| 7/29                       | 0           | 0            | 0           |
| 7/30                       | 0           | 0            | 0           |
| 8/ 5                       | 0           | 0            | 0           |
| 8/ 7                       | 0           | 0            | 0           |
| 8/11                       | 0           | 0            | 0           |
| 8/12                       | 0           | 0            | 0           |
| 8/29                       | 0           | 0            | 0           |
| 8/22                       | 0           | 0            | 0           |
| 8/26                       | 0           | 0            | 0           |
| 8/28                       | 0           | 0            | 0           |

TABLE A-25. CHLAMYDOMONAS  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | -           | -            | -           |
| 9/ 6                       | -           | -            | -           |
| 9/10                       | -           | -            | -           |
| 9/12                       | 2,000       | 2,000        | 1,200       |
| 9/16                       | 3,200       | 5,000        | 1,200       |
| 9/19                       | 6,800       | 5,600        | 1,200       |
| 9/24                       | 7,200       | 2,400        | 2,800       |
| 9/26                       | 2,800       | 2,400        | 1,600       |
| 10/ 1                      | 1,200       | 2,400        | 1,200       |
| 10/ 2                      | 400         | 2,000        | 1,600       |
| 10/ 3                      | 6,000       | 1,200        | 6,400       |
| 10/ 4                      | 2,800       | 2,000        | 4,800       |
| 10/ 5                      | 7,200       | 1,200        | 6,400       |
| 10/ 6                      | 5,200       | 2,000        | 4,000       |
| 10/ 7                      | 1,200       | 2,400        | 1,200       |
| 10/ 8                      | 2,000       | 800          | 1,200       |
| 10/ 9                      | 5,200       | 1,600        | 400         |
| 10/10                      | 2,400       | 2,800        | 800         |
| 10/11                      | 6,000       | 1,600        | 2,800       |
| 10/12                      | 12,000      | 2,800        | 4,000       |
| 10/13                      | 7,200       | 7,600        | 0           |
| 10/14                      | 1,600       | 1,200        | 5,600       |
| 10/15                      | 11,200      | 3,600        | 1,600       |
| 10/16                      | 9,200       | 1,800        | 1,200       |
| 10/17                      | 7,600       | 19,200       | 5,600       |
| 10/18                      | 11,200      | 7,200        | 7,200       |
| 10/19                      | 12,800      | 14,400       | 8,000       |
| 10/20                      | 3,200       | 20,000       | 2,000       |
| 10/21                      | 11,200      | 6,800        | 2,000       |
| 10/22                      | 11,200      | 1,600        | 3,200       |
| 10/23                      | 8,800       | 21,600       | 6,400       |
| 10/24                      | 12,800      | 18,000       | 2,800       |
| 10/25                      | 11,200      | 21,200       | 9,600       |
| 10/26                      | 10,400      | 26,800       | 3,200       |
| 10/27                      | 10,400      | 7,200        | 7,200       |
| 10/28                      | 11,200      | 20,400       | 9,600       |
| 10/29                      | 9,600       | 27,200       | 10,400      |
| 10/30                      | 10,800      | 21,600       | 9,600       |
| 11/ 7                      | 1,600       | 10,800       | 9,600       |
| 11/ 8                      | 3,700       | 17,200       | 4,400       |

TABLE A-25. CHLAMYDIOSES (continued)  
(count/ml)

| 1974  |        |        |        |
|-------|--------|--------|--------|
| DATE  | EAST   | SOUTH  | WEST   |
| 11/11 | 16,000 | 12,000 | 9,600  |
| 11/13 | 16,800 | 18,800 | 8,400  |
| 11/19 | 11,200 | 17,600 | 16,000 |
| 11/21 | 17,200 | 16,400 | 18,800 |
| 11/25 | 20,400 | 16,400 | 18,700 |
| 11/26 | 7,200  | 12,600 | 16,000 |
| 12/4  | 16,000 | 16,000 | 25,200 |
| 12/6  | 10,000 | 15,200 | 19,200 |
| 12/9  | 13,600 | 16,800 | 19,200 |
| 12/11 | 26,400 | 16,400 | 3,600  |
| 12/17 | 12,400 | 18,000 | 30,400 |
| 12/19 | 9,600  | 12,000 | 18,000 |
| 12/23 | 16,000 | 17,600 | 24,800 |
| 12/27 | 2,800  | 9,200  | 13,600 |
| 1975  |        |        |        |
| 1/3   | 6,400  | 11,200 | 28,000 |
| 1/4   | 7,200  | 13,600 | 13,200 |
| 1/5   | 5,200  | 12,000 | 17,600 |
| 1/6   | 16,000 | 21,600 | 17,200 |
| 1/7   | 9,200  | 16,800 | 30,800 |
| 1/8   | 23,200 | 13,600 | 21,600 |
| 1/9   | 21,600 | 17,600 | 25,200 |
| 1/10  | 3,200  | 7,200  | 17,600 |
| 1/11  | 6,000  | 13,200 | 17,600 |
| 1/12  | 14,800 | 19,600 | 20,000 |
| 1/13  | 7,600  | 13,600 | 13,200 |
| 1/14  | 9,600  | 17,200 | 13,200 |
| 1/15  | 19,200 | 16,000 | 17,600 |
| 1/16  | 6,000  | 14,800 | 19,200 |
| 1/17  | 18,000 | 25,600 | 17,600 |
| 1/18  | 20,800 | 14,800 | 17,200 |
| 1/19  | 23,600 | 19,600 | 23,600 |
| 1/20  | 10,800 | 26,000 | 18,400 |
| 1/21  | 3,200  | 5,200  | 2,800  |
| 1/22  | 13,200 | 10,400 | 13,600 |
| 1/23  | 6,000  | 13,200 | 20,000 |
| 1/24  | 9,600  | 19,200 | 13,000 |
| 1/25  | 13,600 | 17,600 | 18,000 |
| 1/26  | 18,000 | 16,000 | 9,200  |
| 1/27  | 9,200  | 16,400 | 28,400 |
| 1/28  | 7,600  | 10,000 | 22,000 |



TABLE A-25. CHLAMYDOMONAS (continued)  
(count/ml)

| 1975<br>DATE | EAST   | SOUTH  | WEST   |
|--------------|--------|--------|--------|
| 1/29         | 6,000  | 13,600 | 16,800 |
| 1/30         | 9,600  | 9,600  | 20,000 |
| 1/31         | 3,200  | 14,000 | 15,600 |
| 2/ 1         | 11,200 | 13,600 | 23,200 |
| 2/ 6         | 8,400  | 14,800 | 10,000 |
| 2/ 8         | 10,000 | 11,200 | 16,000 |
| 2/11         | 5,600  | 11,600 | 6,000  |
| 2/14         | 3,200  | 6,000  | 14,000 |
| 2/16         | 2,400  | 400    | 4,000  |
| 2/19         | 9,200  | 3,600  | 14,000 |
| 2/25         | 1,200  | 6,400  | 11,200 |
| 2/27         | 2,000  | 7,600  | 13,200 |
| 3/ 4         | 8,000  | 14,800 | 26,800 |
| 3/ 7         | 7,200  | 24,000 | 26,800 |
| 3/13         | 1,200  | 3,600  | 13,200 |
| 3/15         | 3,200  | 16,800 | 23,600 |
| 3/18         | 4,000  | 10,000 | 8,000  |
| 3/20         | 5,200  | 12,000 | 16,000 |
| 3/26         | 6,000  | 9,200  | 15,600 |
| 3/28         | 6,000  | 1,200  | 2,800  |
| 4/ 1         | 3,600  | 20,000 | 14,800 |
| 4/ 2         | 2,400  | 19,200 | 5,600  |
| 4/ 3         | 9,200  | 3,600  | 7,200  |
| 4/ 4         | 4,800  | 4,800  | 6,000  |
| 4/ 5         | 5,200  | 10,800 | 11,200 |
| 4/ 6         | 4,800  | 7,600  | 17,200 |
| 4/ 7         | 8,400  | 9,200  | 9,200  |
| 4/ 8         | 5,200  | 12,800 | 8,000  |
| 4/ 9         | 7,200  | 8,000  | 8,400  |
| 4/10         | 6,800  | 13,600 | 8,000  |
| 4/11         | 10,800 | 11,200 | 16,800 |
| 4/12         | 9,200  | 9,200  | 12,400 |
| 4/13         | 9,600  | 11,200 | 8,800  |
| 4/14         | 4,400  | 10,800 | 17,200 |
| 4/15         | 6,400  | 8,800  | 7,200  |
| 4/16         | 3,200  | 14,000 | 9,600  |
| 4/17         | 5,200  | 19,200 | 9,200  |
| 4/18         | 9,200  | 10,400 | 6,800  |
| 4/19         | 7,600  | 9,200  | 11,600 |
| 4/20         | 7,200  | 13,200 | 10,800 |
| 4/21         | 6,400  | 4,400  | 9,200  |

TABLE A-25. CHLAMYDOMONAS (continued)  
(count/ml)

| 1975<br>DATE | EAST   | SOUTH  | WEST   |
|--------------|--------|--------|--------|
| 4/22         | 15,600 | 12,400 | 11,600 |
| 4/23         | 6,800  | 7,200  | 7,200  |
| 4/24         | 7,600  | 6,800  | 6,400  |
| 4/25         | 4,400  | 6,800  | 7,600  |
| 4/26         | 1,600  | 6,000  | 17,200 |
| 4/27         | 7,200  | 9,200  | 12,800 |
| 4/28         | 5,200  | 3,200  | 14,000 |
| 4/29         | 3,600  | 5,600  | 19,600 |
| 4/30         | 1,600  | 5,200  | 11,600 |
| 5/ 6         | 25,200 | 4,400  | 10,800 |
| 5/ 9         | 11,200 | 12,800 | 7,200  |
| 5/14         | 2,400  | 8,400  | 7,200  |
| 5/17         | 3,200  | 14,200 | 19,600 |
| 5/21         | 17,200 | 26,400 | 23,200 |
| 5/23         | 22,400 | 15,200 | 11,600 |
| 5/26         | 33,200 | 42,000 | 12,400 |
| 5/29         | 45,200 | 29,600 | 8,800  |
| 6/ 3         | 20,800 | 16,000 | 19,200 |
| 6/ 6         | 27,600 | 40,800 | 23,200 |
| 6/ 8         | 23,200 | 34,800 | 13,200 |
| 6/11         | 29,200 | 15,200 | 8,400  |
| 6/16         | 23,600 | 15,600 | 10,400 |
| 6/20         | 31,200 | 30,800 | 5,600  |
| 6/24         | 16,400 | 37,600 | 9,200  |
| 6/28         | 22,400 | 29,200 | 15,200 |
| 7/ 1         | 25,200 | 25,200 | 6,800  |
| 7/ 2         | 10,800 | 10,800 | 16,400 |
| 7/ 3         | 10,400 | 25,200 | 7,600  |
| 7/ 4         | 10,400 | 25,600 | 7,200  |
| 7/ 5         | 5,200  | 14,400 | 8,400  |
| 7/ 6         | 19,200 | 15,600 | 7,600  |
| 7/ 7         | 17,200 | 15,200 | 7,200  |
| 7/ 8         | 4,800  | 11,200 | 10,400 |
| 7/ 9         | 12,800 | 18,000 | 10,800 |
| 7/10         | 10,000 | 13,600 | 6,800  |
| 7/11         | 12,000 | 12,800 | 5,600  |
| 7/12         | 8,000  | 11,200 | 9,600  |
| 7/13         | 14,000 | 13,200 | 9,200  |
| 7/14         | 8,400  | 12,800 | 14,400 |
| 7/15         | 6,000  | 7,200  | 7,600  |
| 7/16         | 7,200  | 6,400  | 4,800  |

TABLE A-25. CHLZPYDOMONAS (continued)  
(count/ml)

| 1975<br>DATE | EAST   | SOUTH  | WEST   |
|--------------|--------|--------|--------|
| 7/17         | 5,600  | 4,800  | 5,200  |
| 7/18         | 5,600  | 9,600  | 12,400 |
| 7/19         | 10,400 | 7,600  | 8,000  |
| 7/20         | 5,200  | 18,000 | 8,800  |
| 7/21         | 15,600 | 17,400 | 6,400  |
| 7/22         | 13,200 | 13,200 | 5,600  |
| 7/23         | 9,200  | 17,600 | 8,000  |
| 7/24         | 7,600  | 8,400  | 7,600  |
| 7/25         | 6,800  | 10,800 | 6,400  |
| 7/26         | 8,400  | 10,000 | 5,600  |
| 7/27         | 9,200  | 11,600 | 6,400  |
| 7/28         | 7,600  | 8,400  | 6,400  |
| 7/29         | 12,000 | 17,200 | 10,800 |
| 7/30         | 7,600  | 11,600 | 8,800  |
| 8/ 5         | 8,800  | 10,400 | 9,600  |
| 8/ 7         | 3,600  | 11,600 | 10,400 |
| 8/11         | 10,000 | 11,200 | 8,400  |
| 8/12         | 8,400  | 5,200  | 8,400  |
| 8/20         | 5,600  | 10,000 | 8,800  |
| 8/22         | 6,800  | 22,800 | 6,000  |
| 8/26         | 5,600  | 12,400 | 7,200  |
| 8/28         | 10,400 | 6,000  | 6,000  |

TABLE A-26. EUGLEHA  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | =           | =            | =           |
| 9/ 6                       | =           | =            | =           |
| 9/10                       | =           | =            | =           |
| 9/12                       | 1,200       | 400          | 0           |
| 9/16                       | 3,200       | 800          | 0           |
| 9/19                       | 3,600       | 6,800        | 4,000       |
| 9/24                       | 10,000      | 1,200        | 0           |
| 9/26                       | 3,600       | 400          | 3,600       |
| 10/ 1                      | 10,000      | 6,000        | 1,200       |
| 10/ 2                      | 12,400      | 3,200        | 400         |
| 10/ 3                      | 7,500       | 1,500        | 400         |
| 10/ 4                      | 4,800       | 2,000        | 0           |
| 10/ 5                      | 8,800       | 2,400        | 1,600       |
| 10/ 6                      | 8,800       | 4,400        | 2,400       |
| 10/ 7                      | 10,000      | 1,600        | 2,400       |
| 10/ 8                      | 5,200       | 2,000        | 0           |
| 10/ 9                      | 7,200       | 7,200        | 1,600       |
| 10/10                      | 4,800       | 2,400        | 0           |
| 10/11                      | 4,800       | 2,000        | 400         |
| 10/12                      | 13,200      | 6,800        | 400         |
| 10/13                      | 10,000      | 4,800        | 400         |
| 10/14                      | 12,400      | 2,000        | 400         |
| 10/15                      | 6,400       | 4,800        | 1,200       |
| 10/16                      | 9,200       | 6,000        | 800         |
| 10/17                      | 9,200       | 1,600        | 400         |
| 10/18                      | 9,600       | 4,000        | 1,200       |
| 10/19                      | 14,400      | 9,600        | 400         |
| 10/20                      | 1,600       | 8,800        | 0           |
| 10/21                      | 12,400      | 6,000        | 2,000       |
| 10/22                      | 8,800       | 1,200        | 400         |
| 10/23                      | 6,400       | 4,800        | 400         |
| 10/24                      | 3,600       | 800          | 400         |
| 10/25                      | 6,400       | 4,000        | 1,200       |
| 10/26                      | 400         | 400          | 800         |
| 10/27                      | 1,200       | 4,800        | 0           |
| 10/28                      | 1,200       | 4,400        | 800         |
| 10/29                      | 3,200       | 2,400        | 2,000       |
| 10/30                      | 2,400       | 1,600        | 800         |
| 11/ 7                      | 800         | 800          | 0           |
| 11/ 8                      | 400         | 1,200        | 0           |

TABLE A-26. EUGLENA (continued)  
(count/ml)

| 1974<br>DATE | EAST  | SOUTH  | WEST   |
|--------------|-------|--------|--------|
| 11/11        | 0     | 500    | 800    |
| 11/13        | 1,200 | 2,800  | 3,200  |
| 11/19        | 0     | 800    | 400    |
| 11/21        | 0     | 1,200  | 4,400  |
| 11/25        | 0     | 1,600  | 2,400  |
| 11/26        | 0     | 2,800  | 5,200  |
| 12/ 4        | 0     | 1,200  | 800    |
| 12/ 6        | 0     | 6,800  | 9,200  |
| 12/ 9        | 0     | 4,400  | 8,400  |
| 12/11        | 400   | 5,200  | 4,800  |
| 12/17        | 800   | 6,000  | 15,600 |
| 12/19        | 0     | 5,600  | 7,600  |
| 12/23        | 0     | 2,800  | 8,800  |
| 12/27        | 0     | 0      | 1,600  |
| 1975         |       |        |        |
| 1/ 3         | 800   | 800    | 4,000  |
| 1/ 4         | 2,000 | 12,400 | 9,200  |
| 1/ 5         | 1,600 | 4,000  | 7,200  |
| 1/ 6         | 1,600 | 6,000  | 9,600  |
| 1/ 7         | 0     | 7,600  | 8,800  |
| 1/ 8         | 800   | 7,600  | 23,200 |
| 1/ 9         | 4,800 | 7,600  | 15,200 |
| 1/10         | 2,000 | 3,000  | 11,600 |
| 1/11         | 800   | 400    | 14,800 |
| 1/12         | 0     | 6,000  | 7,600  |
| 1/13         | 7,200 | 6,800  | 7,600  |
| 1/14         | 400   | 7,600  | 2,000  |
| 1/15         | 3,600 | 5,200  | 11,600 |
| 1/16         | 0     | 8,000  | 14,200 |
| 1/17         | 800   | 1,200  | 800    |
| 1/18         | 5,200 | 1,200  | 11,200 |
| 1/19         | 5,600 | 9,200  | 12,800 |
| 1/20         | 2,800 | 4,000  | 5,200  |
| 1/21         | 0     | 2,000  | 800    |
| 1/22         | 5,200 | 3,600  | 5,200  |
| 1/23         | 600   | 6,800  | 12,000 |
| 1/24         | 800   | 4,600  | 8,000  |
| 1/25         | 4,000 | 3,200  | 5,600  |
| 1/26         | 1,200 | 10,000 | 10,800 |
| 1/27         | 800   | 6,000  | 12,000 |
| 1/28         | 7,200 | 10,000 | 10,400 |

TABLE A-26. EUGLEHA (continued)  
(count/ml)

| 1975<br>DATE | EAST   | SOUTH  | WEST   |
|--------------|--------|--------|--------|
| 1/29         | 6,000  | 1,600  | 6,000  |
| 1/30         | 10,000 | 8,000  | 9,200  |
| 1/31         | 0      | 5,600  | 9,200  |
| 2/ 1         | 1,200  | 5,200  | 7,200  |
| 2/ 6         | 4,000  | 12,000 | 800    |
| 2/ 8         | 400    | 13,200 | 10,000 |
| 2/11         | 3,200  | 1,200  | 7,200  |
| 2/14         | 3,200  | 1,200  | 25,600 |
| 2/16         | 0      | 0      | 6,000  |
| 2/19         | 0      | 800    | 9,600  |
| 2/25         | 800    | 800    | 13,200 |
| 2/27         | 800    | 5,200  | 8,400  |
| 3/ 4         | 4,000  | 8,400  | 9,200  |
| 3/ 7         | 2,000  | 6,800  | 14,000 |
| 3/13         | 800    | 0      | 2,800  |
| 3/15         | 3,600  | 4,000  | 19,200 |
| 3/18         | 1,600  | 1,600  | 8,800  |
| 3/20         | 800    | 6,000  | 12,400 |
| 3/26         | 6,400  | 4,400  | 15,200 |
| 3/28         | 5,200  | 6,800  | 5,600  |
| 4/ 1         | 4,800  | 6,400  | 23,600 |
| 4/ 2         | 6,400  | 4,000  | 16,800 |
| 4/ 3         | 15,200 | 4,000  | 5,300  |
| 4/ 4         | 6,400  | 3,200  | 8,400  |
| 4/ 5         | 9,200  | 10,000 | 4,800  |
| 4/ 6         | 10,400 | 8,400  | 17,600 |
| 4/ 7         | 9,200  | 5,200  | 16,000 |
| 4/ 8         | 5,200  | 10,400 | 9,200  |
| 4/ 9         | 4,800  | 3,600  | 9,200  |
| 4/10         | 8,400  | 3,200  | 14,800 |
| 4/11         | 7,200  | 18,400 | 7,200  |
| 4/12         | 10,800 | 12,400 | 7,200  |
| 4/13         | 13,200 | 7,200  | 25,200 |
| 4/14         | 8,000  | 5,600  | 6,400  |
| 4/15         | 18,400 | 13,600 | 11,600 |
| 4/16         | 10,000 | 5,200  | 9,200  |
| 4/17         | 6,800  | 70,000 | 16,800 |
| 4/18         | 9,600  | 1,600  | 20,400 |
| 4/19         | 12,800 | 17,200 | 13,600 |
| 4/20         | 12,800 | 6,000  | 8,800  |



TABLE A- 26, EUGLENA. (continued)  
(count/ml)

| 1975<br>DATE | EAST   | SOUTH  | WEST   |
|--------------|--------|--------|--------|
| 4/21         | 28,800 | 2,800  | 5,600  |
| 4/22         | 11,600 | 5,200  | 14,600 |
| 4/23         | 24,800 | 5,600  | 7,200  |
| 4/24         | 17,200 | 15,600 | 7,200  |
| 4/25         | 16,400 | 7,600  | 13,200 |
| 4/26         | 11,600 | 7,200  | 9,200  |
| 4/27         | 38,800 | 7,200  | 9,600  |
| 4/28         | 33,600 | 18,800 | 12,800 |
| 4/29         | 37,200 | 15,600 | 11,200 |
| 4/30         | 16,800 | 15,600 | 6,800  |
| 5/ 6         | 10,800 | 10,800 | 3,200  |
| 5/ 9         | 9,600  | 2,400  | 6,000  |
| 5/14         | 8,400  | 4,000  | 400    |
| 5/17         | 1,600  | 6,800  | 4,400  |
| 5/21         | 3,600  | 13,200 | 10,400 |
| 5/23         | 12,800 | 6,800  | 8,000  |
| 5/26         | 21,600 | 18,000 | 7,200  |
| 5/29         | 12,800 | 21,200 | 4,400  |
| 6/ 3         | 18,400 | 5,600  | 5,200  |
| 6/ 6         | 9,600  | 3,600  | 1,200  |
| 6/ 8         | 7,200  | 6,800  | 8,400  |
| 6/11         | 15,200 | 11,600 | 2,400  |
| 6/16         | 19,200 | 9,600  | 7,600  |
| 6/20         | 16,400 | 9,200  | 3,200  |
| 6/24         | 13,600 | 12,800 | 5,200  |
| 6/28         | 5,600  | 7,600  | 5,600  |
| 7/ 1         | 5,200  | 10,800 | 8,400  |
| 7/ 2         | 6,400  | 17,600 | 7,600  |
| 7/ 3         | 5,600  | 16,400 | 4,400  |
| 7/ 4         | 6,800  | 7,600  | 4,800  |
| 7/ 5         | 10,800 | 11,200 | 4,400  |
| 7/ 6         | 8,800  | 9,200  | 5,600  |
| 7/ 7         | 4,400  | 6,400  | 3,600  |
| 7/ 8         | 2,800  | 6,800  | 2,400  |
| 7/ 9         | 7,200  | 7,200  | 5,600  |
| 7/10         | 12,400 | 8,800  | 7,200  |
| 7/11         | 6,400  | 6,400  | 8,400  |
| 7/12         | 15,600 | 5,600  | 5,200  |
| 7/13         | 12,800 | 6,400  | 17,600 |
| 7/14         | 15,600 | 25,600 | 11,600 |
| 7/15         | 7,200  | 11,600 | 13,200 |

TABLE A-26. EUGLENA (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/16                       | 6,800       | 6,800        | 9,200       |
| 7/17                       | 9,600       | 5,600        | 2,000       |
| 7/18                       | 7,600       | 16,400       | 8,000       |
| 7/19                       | 8,800       | 12,400       | 6,800       |
| 7/20                       | 15,600      | 7,600        | 5,200       |
| 7/21                       | 12,400      | 6,400        | 2,000       |
| 7/22                       | 10,000      | 5,200        | 2,000       |
| 7/23                       | 16,800      | 26,800       | 800         |
| 7/24                       | 11,600      | 6,400        | 6,800       |
| 7/25                       | 12,400      | 7,600        | 4,800       |
| 7/26                       | 5,600       | 8,800        | 3,200       |
| 7/27                       | 10,400      | 4,600        | 1,600       |
| 7/28                       | 14,800      | 8,000        | 5,200       |
| 7/29                       | 11,200      | 10,800       | 3,600       |
| 7/30                       | 12,800      | 5,200        | 5,600       |
| 8/ 5                       | 20,800      | 6,000        | 7,200       |
| 8/ 7                       | 16,400      | 9,200        | 5,600       |
| 8/11                       | 26,000      | 5,200        | 2,800       |
| 8/12                       | 19,600      | 6,400        | 5,200       |
| 8/20                       | 16,800      | 3,200        | 4,800       |
| 8/22                       | 10,400      | 10,800       | 5,200       |
| 8/26                       | 22,400      | 6,400        | 5,200       |
| 8/28                       | 19,200      | 11,200       | 3,600       |

TABLE A-27. PHACUS  
(count/ml)

| 1974<br>DATE | EAST   | SOUTH  | WEST  |
|--------------|--------|--------|-------|
| 9/ 4         | =      | =      | =     |
| 9/ 6         | =      | =      | =     |
| 9/10         | =      | =      | =     |
| 9/12         | 0      | 0      | 0     |
| 9/16         | 500    | 0      | 0     |
| 9/19         | 800    | 0      | 800   |
| 9/24         | 500    | 0      | 500   |
| 9/26         | 5,500  | 500    | 1,200 |
| 10/ 1        | 2,500  | 1,200  | 500   |
| 10/ 2        | 5,800  | 3,200  | 5,800 |
| 10/ 3        | 5,200  | 1,500  | 1,200 |
| 10/ 4        | 5,000  | 1,500  | 0     |
| 10/ 5        | 5,200  | 2,800  | 3,200 |
| 10/ 6        | 6,800  | 3,500  | 8,000 |
| 10/ 7        | 7,200  | 1,200  | 2,200 |
| 10/ 8        | 6,000  | 3,500  | 3,200 |
| 10/ 9        | 7,500  | 11,200 | 5,000 |
| 10/10        | 6,800  | 5,500  | 2,000 |
| 10/11        | 8,800  | 5,800  | 1,500 |
| 10/12        | 10,800 | 8,500  | 2,800 |
| 10/13        | 6,000  | 6,000  | 500   |
| 10/14        | 10,800 | 5,500  | 2,000 |
| 10/15        | 7,200  | 5,000  | 0     |
| 10/16        | 6,800  | 2,800  | 0     |
| 10/17        | 10,000 | 5,000  | 500   |
| 10/18        | 6,500  | 8,500  | 2,500 |
| 10/19        | 5,800  | 6,800  | 800   |
| 10/20        | 5,800  | 5,500  | 2,000 |
| 10/21        | 6,000  | 8,500  | 2,000 |
| 10/22        | 8,500  | 5,200  | 800   |
| 10/23        | 2,800  | 2,800  | 2,500 |
| 10/24        | 1,200  | 5,500  | 2,800 |
| 10/25        | 2,800  | 7,200  | 1,500 |
| 10/26        | 1,500  | 3,200  | 1,200 |
| 10/27        | 800    | 3,200  | 1,200 |
| 10/28        | 1,200  | 500    | 200   |
| 10/29        | 500    | 1,500  | 1,200 |
| 10/30        | 1,500  | 3,200  | 500   |
| 11/ 7        | 0      | 2,000  | 500   |
| 11/ 8        | 1,200  | 800    | 0     |
| 11/11        | 2,000  | 1,500  | 2,800 |

TABLE A-27. *PHACUS* (continued)  
(count/ml)

| 1974<br>DATE | EAST   | SOUTH  | WEST   |
|--------------|--------|--------|--------|
| 11/13        | 0      | 1,600  | 0      |
| 11/19        | 400    | 1,200  | 0      |
| 11/21        | 400    | 1,600  | 2,400  |
| 11/25        | 0      | 2,800  | 1,200  |
| 11/26        | 0      | 800    | 2,000  |
| 12/ 4        | 1,600  | 2,400  | 400    |
| 12/ 6        | 1,200  | 1,200  | 4,800  |
| 12/ 9        | 500    | 6,000  | 4,400  |
| 12/11        | 800    | 2,800  | 3,200  |
| 12/17        | 8,800  | 9,200  | 11,600 |
| 12/19        | 1,200  | 7,200  | 2,000  |
| 12/23        | 1,600  | 7,600  | 6,400  |
| 12/27        | 6,800  | 2,000  | 1,600  |
| 1975         |        |        |        |
| 1/ 3         | 5,600  | 2,400  | 5,600  |
| 1/ 4         | 12,800 | 8,800  | 11,200 |
| 1/ 5         | 5,600  | 11,200 | 10,800 |
| 1/ 6         | 8,400  | 11,600 | 11,200 |
| 1/ 7         | 8,400  | 6,000  | 8,400  |
| 1/ 8         | 12,800 | 4,800  | 2,000  |
| 1/ 9         | 7,200  | 9,200  | 8,800  |
| 1/10         | 4,800  | 4,400  | 10,800 |
| 1/12         | 6,000  | 400    | 3,600  |
| 1/13         | 4,000  | 5,200  | 3,200  |
| 1/14         | 1,800  | 6,000  | 9,600  |
| 1/15         | 12,000 | 6,400  | 5,200  |
| 1/16         | 1,600  | 7,200  | 6,000  |
| 1/17         | 5,200  | 5,600  | 3,200  |
| 1/18         | 6,000  | 6,800  | 5,600  |
| 1/19         | 13,200 | 7,200  | 12,000 |
| 1/20         | 5,600  | 6,800  | 5,600  |
| 1/21         | 1,200  | 6,800  | 1,200  |
| 1/22         | 7,600  | 5,600  | 8,400  |
| 1/23         | 7,200  | 11,600 | 2,400  |
| 1/24         | 1,600  | 4,000  | 2,000  |
| 1/25         | 1,600  | 4,000  | 2,000  |
| 1/26         | 8,000  | 11,200 | 5,200  |
| 1/27         | 1,000  | 8,000  | 10,000 |
| 1/28         | 8,400  | 12,000 | 8,800  |
| 1/29         | 13,600 | 16,000 | 1,200  |
| 1/30         | 7,600  | 7,200  | 8,400  |

TABLE A-27. PHACUS (continued)  
(count/ml)

| <u>1973</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 1/31                       | 8,000       | 1,200        | 8,400       |
| 2/ 1                       | 9,600       | 5,600        | 1,600       |
| 2/ 6                       | 12,000      | 10,000       | 12,800      |
| 2/ 8                       | 6,000       | 14,000       | 8,000       |
| 2/11                       | 6,000       | 8,800        | 8,000       |
| 2/14                       | 4,000       | 7,600        | 7,600       |
| 2/16                       | 800         | 2,400        | 4,000       |
| 2/19                       | 1,600       | 3,200        | 6,000       |
| 2/25                       | 1,600       | 7,600        | 8,000       |
| 2/27                       | 2,800       | 6,000        | 14,400      |
| 3/ 4                       | 6,400       | 7,200        | 23,200      |
| 3/ 7                       | 6,000       | 17,200       | 26,000      |
| 3/13                       | 1,200       | 800          | 4,400       |
| 3/15                       | 1,200       | 6,000        | 2,400       |
| 3/18                       | 8,400       | 9,200        | 14,400      |
| 3/20                       | 2,600       | 10,000       | 12,000      |
| 3/26                       | 4,000       | 10,800       | 13,200      |
| 3/28                       | 9,600       | 6,000        | 9,200       |
| 4/ 1                       | 5,200       | 800          | 400         |
| 4/ 2                       | 2,800       | 2,400        | 1,200       |
| 4/ 3                       | 8,800       | 2,000        | 800         |
| 4/ 4                       | 800         | 0            | 0           |
| 4/ 5                       | 800         | 800          | 400         |
| 4/ 6                       | 6,800       | 2,400        | 12,800      |
| 4/ 7                       | 5,600       | 1,200        | 400         |
| 4/ 8                       | 400         | 0            | 800         |
| 4/ 9                       | 800         | 0            | 1,600       |
| 4/10                       | 4,800       | 0            | 0           |
| 4/11                       | 0           | 0            | 0           |
| 4/12                       | 7,200       | 1,600        | 800         |
| 4/13                       | 1,200       | 800          | 0           |
| 4/14                       | 6,400       | 400          | 0           |
| 4/15                       | 2,400       | 800          | 1,200       |
| 4/16                       | 6,000       | 800          | 0           |
| 4/17                       | 1,600       | 800          | 0           |
| 4/18                       | 2,000       | 0            | 400         |
| 4/19                       | 6,800       | 1,200        | 0           |
| 4/20                       | 2,000       | 1,200        | 0           |
| 4/21                       | 3,600       | 0            | 0           |
| 4/22                       | 9,200       | 0            | 0           |

TABLE A- 27. PHACUS (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/23                       | 3,200       | 0            | 0           |
| 4/24                       | 0           | 0            | 0           |
| 4/25                       | 800         | 0            | 0           |
| 4/26                       | 0           | 0            | 0           |
| 4/27                       | 0           | 0            | 0           |
| 4/28                       | 0           | 0            | 0           |
| 4/29                       | 0           | 0            | 4,000       |
| 4/30                       | 0           | 0            | 1,600       |
| 5/ 6                       | 800         | 0            | 0           |
| 5/ 9                       | 1,600       | 0            | 0           |
| 5/15                       | 0           | 0            | 0           |
| 5/17                       | 0           | 0            | 0           |
| 5/21                       | 0           | 1,200        | 0           |
| 5/23                       | 800         | 0            | 0           |
| 5/26                       | 0           | 0            | 1,200       |
| 5/29                       | 0           | 0            | 0           |
| 6/ 3                       | 0           | 0            | 0           |
| 6/ 5                       | 0           | 0            | 0           |
| 6/ 8                       | 0           | 0            | 800         |
| 6/11                       | 0           | 0            | 0           |
| 6/16                       | 0           | 0            | 0           |
| 6/20                       | 0           | 0            | 400         |
| 6/24                       | 0           | 0            | 0           |
| 6/28                       | 1,600       | 0            | 0           |
| 7/ 1                       | 0           | 1,200        | 800         |
| 7/ 2                       | 0           | 0            | 0           |
| 7/ 3                       | 0           | 0            | 0           |
| 7/ 4                       | 400         | 800          | 0           |
| 7/ 5                       | 0           | 400          | 0           |
| 7/ 6                       | 0           | 0            | 0           |
| 7/ 7                       | 0           | 2,000        | 0           |
| 7/ 8                       | 0           | 800          | 0           |
| 7/ 9                       | 400         | 800          | 0           |
| 7/10                       | 0           | 0            | 0           |
| 7/11                       | 0           | 0            | 0           |
| 7/12                       | 2,000       | 0            | 0           |
| 7/13                       | 0           | 0            | 0           |
| 7/14                       | 0           | 0            | 0           |
| 7/15                       | 0           | 0            | 0           |
| 7/16                       | 0           | 0            | 0           |
| 7/17                       | 0           | 0            | 0           |



TABLE A-27. PHACUS (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST  |
|--------------|-------|-------|-------|
| 7/18         | 0     | 0     | 0     |
| 7/19         | 0     | 0     | 0     |
| 7/20         | 0     | 0     | 0     |
| 7/21         | 0     | 0     | 0     |
| 7/22         | 0     | 0     | 0     |
| 7/23         | 3,200 | 0     | 0     |
| 7/24         | 0     | 0     | 0     |
| 7/25         | 2,800 | 0     | 0     |
| 7/26         | 0     | 2,400 | 0     |
| 7/27         | 2,400 | 0     | 0     |
| 7/28         | 0     | 400   | 0     |
| 7/29         | 1,200 | 0     | 0     |
| 7/30         | 4,400 | 800   | 0     |
| 8/ 5         | 0     | 0     | 0     |
| 8/ 7         | 0     | 0     | 0     |
| 8/11         | 4,000 | 0     | 0     |
| 8/12         | 5,200 | 7,200 | 0     |
| 8/20         | 0     | 0     | 1,200 |
| 8/22         | 0     | 0     | 0     |
| 8/26         | 0     | 0     | 0     |
| 8/28         | 0     | 0     | 0     |

TABLE A-28. CATERIA  
(count/ml)

| 1974<br>DATE | EAST   | SOUTH  | WEST  |
|--------------|--------|--------|-------|
| 9/ 4         | 0      | 0      | 0     |
| 9/ 6         | 0      | 0      | 0     |
| 9/10         | 0      | 0      | 0     |
| 9/12         | 0      | 0      | 0     |
| 9/16         | 0      | 0      | 0     |
| 9/19         | 0      | 0      | 0     |
| 9/24         | 0      | 0      | 0     |
| 9/26         | 0      | 0      | 0     |
| 10/ 1        | 0      | 0      | 0     |
| 10/ 2        | 0      | 2,000  | 400   |
| 10/ 3        | 0      | 0      | 1,600 |
| 10/ 4        | 0      | 1,600  | 2,000 |
| 10/ 5        | 400    | 3,200  | 1,200 |
| 10/ 6        | 0      | 1,600  | 800   |
| 10/ 7        | 1,200  | 6,400  | 400   |
| 10/ 8        | 1,200  | 5,600  | 2,000 |
| 10/10        | 1,600  | 10,400 | 1,200 |
| 10/11        | 2,400  | 8,800  | 1,600 |
| 10/12        | 1,200  | 9,600  | 2,000 |
| 10/13        | 0      | 10,000 | 2,400 |
| 10/14        | 4,800  | 7,200  | 1,600 |
| 10/15        | 13,200 | 20,800 | 2,000 |
| 10/16        | 4,800  | 1,600  | 1,600 |
| 10/17        | 1,600  | 6,400  | 0     |
| 10/18        | 0      | 5,600  | 2,000 |
| 10/19        | 6,000  | 26,400 | 0     |
| 10/20        | 8,400  | 12,800 | 5,200 |
| 10/21        | 3,600  | 14,400 | 4,800 |
| 10/22        | 10,800 | 18,800 | 2,800 |
| 10/23        | 7,600  | 13,200 | 1,600 |
| 10/24        | 2,800  | 3,600  | 2,000 |
| 10/25        | 1,200  | 8,800  | 2,000 |
| 10/26        | 5,200  | 800    | 400   |
| 10/27        | 3,600  | 6,800  | 0     |
| 10/28        | 2,800  | 4,000  | 1,200 |
| 10/29        | 4,800  | 1,600  | 400   |
| 10/30        | 5,200  | 1,200  | 0     |
| 11/ 7        | 3,600  | 1,600  | 400   |
| 11/ 8        | 2,800  | 5,200  | 0     |
| 11/11        | 6,400  | 2,800  | 1,600 |
| 11/13        | 2,400  | 0      | 0     |
| 11/19        | 800    | 1,200  | 400   |

TABLE A-28. CARTERIA (continued)  
(count/ml)

| 1974<br>DATE | EAST  | SOUTH | WENT   |
|--------------|-------|-------|--------|
| 11/21        | 4,800 | 2,400 | 800    |
| 11/25        | 2,800 | 3,200 | 0      |
| 11/26        | 1,600 | 800   | 2,800  |
| 12/ 4        | 500   | 1,600 | 1,600  |
| 12/ 6        | 5,200 | 1,600 | 2,800  |
| 12/ 9        | 1,200 | 4,800 | 10,000 |
| 12/11        | 1,000 | 1,600 | 2,000  |
| 12/17        | 800   | 0     | 8,000  |
| 12/19        | 800   | 1,600 | 3,000  |
| 12/23        | 1,600 | 2,400 | 2,800  |
| 12/27        | 2,000 | 3,200 | 0      |
| 1975         |       |       |        |
| 1/ 3         | 1,600 | 5,200 | 9,200  |
| 1/ 4         | 1,200 | 1,600 | 4,000  |
| 1/ 5         | 1,600 | 5,200 | 9,600  |
| 1/ 6         | 1,200 | 7,200 | 7,200  |
| 1/ 7         | 0     | 400   | 2,400  |
| 1/ 8         | 0     | 5,200 | 14,000 |
| 1/ 9         | 800   | 6,800 | 16,000 |
| 1/10         | 0     | 0     | 15,200 |
| 1/11         | 0     | 1,600 | 16,800 |
| 1/12         | 800   | 4,400 | 6,800  |
| 1/13         | 7,400 | 7,200 | 9,200  |
| 1/14         | 0     | 9,200 | 10,000 |
| 1/15         | 5,200 | 4,000 | 11,200 |
| 1/16         | 0     | 5,200 | 4,800  |
| 1/17         | 0     | 2,800 | 7,200  |
| 1/18         | 0     | 5,600 | 9,200  |
| 1/19         | 0     | 2,800 | 5,200  |
| 1/20         | 0     | 8,800 | 6,000  |
| 1/21         | 800   | 6,800 | 1,200  |
| 1/22         | 0     | 4,000 | 9,200  |
| 1/23         | 0     | 8,000 | 10,000 |
| 1/24         | 0     | 2,800 | 9,200  |
| 1/25         | 0     | 6,800 | 5,600  |
| 1/26         | 0     | 4,400 | 7,200  |
| 1/27         | 0     | 8,000 | 18,400 |
| 1/28         | 0     | 1,600 | 6,000  |
| 1/29         | 0     | 1,200 | 12,800 |
| 1/30         | 0     | 4,800 | 5,600  |
| 1/31         | 0     | 5,200 | 10,000 |
| 2/ 1         | 0     | 1,600 | 8,400  |

TABLE A-28. BACTERIA (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST   |
|--------------|-------|-------|--------|
| 2/ 6         | 0     | 2,400 | 6,000  |
| 2/ 8         | 0     | 1,600 | 12,800 |
| 2/11         | 0     | 0     | 800    |
| 2/14         | 0     | 0     | 8,000  |
| 2/16         | 0     | 0     | 0      |
| 2/19         | 0     | 0     | 0      |
| 2/25         | 0     | 0     | 8,800  |
| 2/27         | 0     | 0     | 0      |
| 3/ 4         | 0     | 0     | 0      |
| 3/ 7         | 0     | 0     | 0      |
| 3/13         | 0     | 0     | 0      |
| 3/15         | 0     | 0     | 0      |
| 3/18         | 0     | 0     | 0      |
| 3/20         | 0     | 0     | 0      |
| 3/26         | 0     | 0     | 0      |
| 3/28         | 0     | 0     | 0      |
| 4/ 1         | 0     | 0     | 1,200  |
| 4/ 2         | 0     | 0     | 0      |
| 4/ 3         | 0     | 0     | 0      |
| 4/ 4         | 0     | 0     | 0      |
| 4/ 5         | 800   | 400   | 0      |
| 4/ 6         | 0     | 0     | 0      |
| 4/ 7         | 0     | 0     | 1,600  |
| 4/ 8         | 0     | 0     | 3,600  |
| 4/ 9         | 0     | 0     | 0      |
| 4/10         | 2,400 | 800   | 2,400  |
| 4/11         | 800   | 6,800 | 0      |
| 4/12         | 2,000 | 3,600 | 2,000  |
| 4/13         | 800   | 400   | 2,000  |
| 4/14         | 800   | 3,600 | 2,000  |
| 4/15         | 2,400 | 3,200 | 3,200  |
| 4/16         | 0     | 6,800 | 4,400  |
| 4/17         | 4,800 | 2,400 | 5,200  |
| 4/18         | 800   | 2,000 | 2,800  |
| 4/19         | 2,400 | 1,200 | 7,200  |
| 4/20         | 3,200 | 3,600 | 8,400  |
| 4/21         | 0     | 3,600 | 3,600  |
| 4/22         | 2,400 | 4,800 | 5,200  |
| 4/23         | 400   | 1,600 | 1,200  |
| 4/24         | 800   | 1,200 | 400    |
| 4/25         | 400   | 4,000 | 7,200  |
| 4/26         | 0     | 2,000 | 6,800  |

TABLE A-28. CARTERIA (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/27                       | 1,600       | 4,800        | 1,600       |
| 4/28                       | 500         | 1,200        | 5,600       |
| 4/29                       | 0           | 2,000        | 2,800       |
| 4/30                       | 6,000       | 4,400        | 2,400       |
| 5/ 6                       | 1,200       | 3,200        | 1,600       |
| 5/ 9                       | 5,200       | 3,600        | 4,800       |
| 5/14                       | 0           | 7,600        | 2,800       |
| 5/17                       | 4,000       | 18,800       | 2,800       |
| 5/21                       | 2,400       | 11,200       | 3,600       |
| 5/23                       | 5,200       | 18,000       | 7,600       |
| 5/26                       | 9,600       | 6,800        | 5,600       |
| 5/29                       | 6,400       | 8,400        | 1,600       |
| 6/ 3                       | 15,200      | 20,800       | 9,400       |
| 6/ 6                       | 5,600       | 19,200       | 10,800      |
| 6/ 8                       | 11,600      | 17,200       | 9,200       |
| 6/11                       | 11,600      | 10,400       | 8,000       |
| 6/16                       | 7,200       | 9,200        | 6,400       |
| 6/20                       | 11,600      | 12,800       | 4,400       |
| 6/24                       | 9,200       | 18,400       | 6,000       |
| 6/28                       | 17,600      | 4,800        | 3,600       |
| 7/ 1                       | 1,600       | 5,200        | 3,200       |
| 7/ 2                       | 2,400       | 3,600        | 11,200      |
| 7/ 3                       | 1,600       | 0            | 1,200       |
| 7/ 4                       | 2,400       | 7,200        | 1,200       |
| 7/ 5                       | 15,200      | 7,600        | 6,000       |
| 7/ 6                       | 1,600       | 7,200        | 5,600       |
| 7/ 7                       | 2,800       | 4,000        | 4,000       |
| 7/ 8                       | 2,000       | 3,200        | 3,200       |
| 7/ 9                       | 3,600       | 1,600        | 1,600       |
| 7/10                       | 800         | 1,200        | 1,200       |
| 7/11                       | 2,400       | 4,400        | 1,600       |
| 7/12                       | 3,200       | 1,600        | 6,400       |
| 7/13                       | 1,200       | 4,000        | 1,200       |
| 7/14                       | 1,200       | 6,800        | 2,800       |
| 7/15                       | 0           | 4,400        | 2,400       |
| 7/16                       | 1,600       | 1,200        | 1,600       |
| 7/17                       | 1,200       | 2,400        | 0           |
| 7/18                       | 1,600       | 5,600        | 13,200      |
| 7/19                       | 0           | 6,800        | 12,400      |
| 7/20                       | 0           | 1,600        | 7,600       |
| 7/21                       | 9,600       | 5,600        | 0           |
| 7/22                       | 9,600       | 5,600        | 0           |

TABLE A-28. CARTIFBIA (continued)  
(count/mi)

| 1975<br>DATE | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|--------------|-------------|--------------|-------------|
| 7/23         | 3,600       | 1,600        | 1,200       |
| 7/24         | 0           | 1,200        | 0           |
| 7/25         | 0           | 4,800        | 1,200       |
| 7/26         | 0           | 3,600        | 1,600       |
| 7/27         | 0           | 3,200        | 0           |
| 7/28         | 0           | 1,600        | 0           |
| 7/29         | 0           | 2,400        | 0           |
| 7/30         | 0           | 0            | 2,000       |
| 8/ 5         | 1,200       | 1,200        | 2,400       |
| 8/ 7         | 0           | 800          | 800         |
| 8/11         | 1,200       | 3,200        | 0           |
| 8/12         | 800         | 0            | 1,200       |
| 8/20         | 0           | 0            | 0           |
| 8/22         | 0           | 3,600        | 0           |
| 8/26         | 1,200       | 0            | 0           |
| 8/28         | 0           | 2,400        | 800         |

TABLE A-22. CHLOROGONIUM  
(count/ml)

| 1974<br>DATE | EAST   | SOUTH | WEST  |
|--------------|--------|-------|-------|
| 9/ 4         | 0      | 0     | 0     |
| 9/ 6         | 0      | 0     | 0     |
| 9/10         | 0      | 0     | 0     |
| 9/12         | 400    | 800   | 400   |
| 9/16         | 800    | 2,000 | 0     |
| 9/19         | 2,400  | 2,800 | 1,200 |
| 9/24         | 2,800  | 0     | 1,200 |
| 9/26         | 2,800  | 2,400 | 3,200 |
| 10/ 1        | 2,800  | 1,600 | 1,600 |
| 10/ 2        | 1,600  | 1,600 | 2,000 |
| 10/ 3        | 400    | 400   | 400   |
| 10/ 4        | 2,400  | 800   | 400   |
| 10/ 5        | 2,000  | 2,000 | 3,200 |
| 10/ 6        | 2,800  | 400   | 400   |
| 10/ 7        | 1,600  | 3,200 | 2,000 |
| 10/ 8        | 4,400  | 1,600 | 2,000 |
| 10/ 9        | 6,400  | 6,400 | 200   |
| 10/10        | 5,600  | 5,200 | 1,200 |
| 10/11        | 2,800  | 2,400 | 800   |
| 10/12        | 5,200  | 1,200 | 2,400 |
| 10/13        | 2,000  | 2,400 | 800   |
| 10/14        | 2,800  | 2,800 | 800   |
| 10/15        | 1,200  | 2,000 | 1,200 |
| 10/16        | 6,400  | 1,200 | 400   |
| 10/17        | 4,200  | 6,400 | 400   |
| 10/18        | 9,200  | 5,600 | 3,200 |
| 10/19        | 10,400 | 8,000 | 400   |
| 10/20        | 6,000  | 1,600 | 1,200 |
| 10/21        | 5,200  | 5,200 | 0     |
| 10/22        | 6,800  | 2,800 | 1,600 |
| 10/23        | 6,000  | 1,200 | 2,000 |
| 10/24        | 2,400  | 6,000 | 400   |
| 10/25        | 5,600  | 1,600 | 400   |
| 10/26        | 9,600  | 400   | 800   |
| 10/27        | 2,000  | 4,000 | 1,600 |
| 10/28        | 1,200  | 4,400 | 1,200 |
| 10/29        | 2,000  | 2,800 | 800   |
| 10/30        | 1,600  | 800   | 400   |
| 11/ 7        | 800    | 0     | 0     |
| 11/ 8        | 800    | 0     | 0     |
| 11/11        | 0      | 800   | 800   |



TABLE A-29. CHLOROBROMIUM (continued)  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 11/13                      | 400         | 1,600        | 0           |
| 11/19                      | 400         | 2,400        | 800         |
| 11/21                      | 400         | 2,800        | 1,200       |
| 11/25                      | 0           | 1,600        | 400         |
| 11/26                      | 0           | 800          | 0           |
| 12/ 4                      | 1,200       | 0            | 0           |
| 12/ 6                      | 400         | 400          | 800         |
| 12/ 9                      | 400         | 400          | 400         |
| 12/11                      | 0           | 0            | 0           |
| 12/17                      | 3,200       | 0            | 0           |
| 12/19                      | 400         | 0            | 0           |
| 12/23                      | 0           | 0            | 0           |
| 12/27                      | 0           | 0            | 0           |
| <u>1975</u>                |             |              |             |
| 1/ 3                       | 0           | 0            | 0           |
| 1/ 4                       | 0           | 0            | 0           |
| 1/ 5                       | 0           | 0            | 0           |
| 1/ 6                       | 0           | 0            | 0           |
| 1/ 7                       | 0           | 0            | 0           |
| 1/ 8                       | 0           | 0            | 0           |
| 1/ 9                       | 0           | 0            | 0           |
| 1/10                       | 0           | 0            | 0           |
| 1/11                       | 0           | 0            | 0           |
| 1/12                       | 0           | 0            | 0           |
| 1/13                       | 0           | 0            | 0           |
| 1/14                       | 0           | 0            | 0           |
| 1/15                       | 0           | 0            | 0           |
| 1/16                       | 0           | 0            | 0           |
| 1/17                       | 0           | 0            | 0           |
| 1/18                       | 0           | 0            | 0           |
| 1/19                       | 0           | 0            | 0           |
| 1/20                       | 0           | 0            | 0           |
| 1/21                       | 0           | 0            | 0           |
| 1/22                       | 0           | 0            | 0           |
| 1/23                       | 0           | 0            | 0           |
| 1/24                       | 0           | 0            | 0           |
| 1/25                       | 0           | 0            | 0           |
| 1/26                       | 0           | 0            | 0           |
| 1/27                       | 0           | 0            | 0           |
| 1/28                       | 0           | 0            | 0           |
| 1/29                       | 0           | 0            | 0           |
| 1/30                       | 0           | 0            | 0           |

TABLE A-29. CHLORODIATOM (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 1/31                       | 0           | 0            | 0           |
| 2/ 1                       | 0           | 0            | 0           |
| 2/ 6                       | 0           | 0            | 0           |
| 2/ 8                       | 0           | 0            | 0           |
| 2/11                       | 0           | 0            | 0           |
| 2/14                       | 0           | 0            | 0           |
| 2/16                       | 0           | 0            | 0           |
| 2/19                       | 0           | 0            | 0           |
| 2/23                       | 0           | 0            | 0           |
| 2/27                       | 0           | 0            | 0           |
| 3/ 4                       | 0           | 0            | 0           |
| 3/ 7                       | 0           | 0            | 0           |
| 3/13                       | 0           | 0            | 0           |
| 3/15                       | 0           | 0            | 0           |
| 3/18                       | 0           | 0            | 0           |
| 3/20                       | 0           | 0            | 0           |
| 3/26                       | 0           | 0            | 0           |
| 3/28                       | 0           | 0            | 0           |
| 4/ 1                       | 0           | 0            | 0           |
| 4/ 2                       | 0           | 0            | 0           |
| 4/ 3                       | 0           | 0            | 0           |
| 4/ 4                       | 0           | 0            | 0           |
| 4/ 5                       | 0           | 0            | 0           |
| 4/ 6                       | 0           | 0            | 0           |
| 4/ 7                       | 0           | 0            | 0           |
| 4/ 8                       | 0           | 0            | 0           |
| 4/ 9                       | 0           | 0            | 0           |
| 4/10                       | 0           | 0            | 0           |
| 4/11                       | 0           | 0            | 0           |
| 4/12                       | 0           | 0            | 0           |
| 4/13                       | 0           | 0            | 0           |
| 4/14                       | 0           | 0            | 0           |
| 4/15                       | 0           | 0            | 0           |
| 4/16                       | 0           | 0            | 0           |
| 4/17                       | 0           | 0            | 0           |
| 4/18                       | 0           | 0            | 0           |
| 4/19                       | 0           | 0            | 0           |
| 4/20                       | 0           | 0            | 0           |
| 4/21                       | 0           | 0            | 0           |
| 4/22                       | 0           | 0            | 0           |
| 4/23                       | 0           | 0            | 0           |
| 4/24                       | 0           | 0            | 0           |

TABLE A-29. CHLORODONIUM (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/25                       | 0           | 0            | 0           |
| 4/26                       | 0           | 0            | 0           |
| 4/27                       | 0           | 0            | 0           |
| 4/28                       | 0           | 0            | 0           |
| 4/29                       | 0           | 0            | 0           |
| 4/30                       | 0           | 0            | 0           |
| 5/ 6                       | 1,200       | 400          | 0           |
| 5/ 9                       | 0           | 0            | 0           |
| 5/14                       | 0           | 0            | 0           |
| 5/17                       | 0           | 1,600        | 800         |
| 5/21                       | 0           | 2,800        | 400         |
| 5/23                       | 2,800       | 20,800       | 800         |
| 5/26                       | 7,200       | 2,400        | 1,600       |
| 5/29                       | 4,000       | 16,400       | 800         |
| 6/ 3                       | 13,600      | 0            | 800         |
| 6/ 6                       | 3,200       | 2,000        | 800         |
| 6/ 8                       | 1,600       | 1,600        | 1,600       |
| 6/11                       | 3,200       | 2,800        | 1,600       |
| 6/16                       | 1,200       | 1,600        | 800         |
| 6/20                       | 3,200       | 1,200        | 0           |
| 6/24                       | 800         | 0            | 4,000       |
| 6/28                       | 0           | 8,400        | 3,200       |
| 7/ 1                       | 2,400       | 7,600        | 3,600       |
| 7/ 2                       | 8,000       | 9,600        | 800         |
| 7/ 3                       | 3,200       | 20,800       | 1,600       |
| 7/ 4                       | 4,800       | 10,400       | 2,000       |
| 7/ 5                       | 1,600       | 9,200        | 2,800       |
| 7/ 6                       | 2,800       | 19,600       | 4,800       |
| 7/ 7                       | 4,800       | 12,000       | 3,200       |
| 7/ 8                       | 0           | 10,800       | 1,600       |
| 7/ 9                       | 1,600       | 12,800       | 1,200       |
| 7/10                       | 11,200      | 4,400        | 6,000       |
| 7/11                       | 9,200       | 10,800       | 3,200       |
| 7/12                       | 5,600       | 3,200        | 2,800       |
| 7/13                       | 4,000       | 1,200        | 1,600       |
| 7/14                       | 800         | 0,400        | 6,800       |
| 7/15                       | 2,000       | 12,000       | 5,600       |
| 7/16                       | 5,200       | 4,000        | 3,600       |
| 7/17                       | 4,000       | 3,600        | 3,200       |
| 7/18                       | 7,200       | 5,200        | 4,800       |
| 7/19                       | 2,400       | 2,400        | 6,400       |

TABLE A-29. CHLOROPHYLLUM (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/20                       | 1,200       | 3,600        | 1,200       |
| 7/21                       | 7,200       | 7,600        | 1,600       |
| 7/22                       | 5,600       | 5,600        | 1,200       |
| 7/23                       | 14,400      | 5,600        | 2,800       |
| 7/24                       | 4,800       | 32,400       | 1,600       |
| 7/25                       | 2,000       | 8,400        | 1,600       |
| 7/26                       | 2,800       | 5,200        | 1,200       |
| 7/27                       | 4,800       | 8,400        | 3,200       |
| 7/28                       | 5,600       | 7,200        | 3,200       |
| 7/29                       | 4,400       | 10,800       | 8,400       |
| 7/30                       | 2,000       | 4,800        | 4,000       |
| 8/ 5                       | 800         | 4,400        | 11,200      |
| 8/ 7                       | 1,200       | 7,600        | 1,600       |
| 8/11                       | 3,200       | 6,400        | 0           |
| 8/12                       | 1,600       | 3,600        | 4,000       |
| 8/20                       | 0           | 4,800        | 5,200       |
| 8/22                       | 0           | 1,600        | 6,800       |
| 8/26                       | 2,800       | 2,800        | 5,600       |
| 8/28                       | 5,200       | 3,200        | 800         |

TABLE A-30. PANDORINA  
(count/mi)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | 0           | 0            | 0           |
| 9/ 6                       | 0           | 0            | 0           |
| 9/10                       | 0           | 0            | 0           |
| 9/12                       | 400         | 1,200        | 0           |
| 9/16                       | 2,800       | 400          | 0           |
| 9/19                       | 2,800       | 8,800        | 0           |
| 9/24                       | 800         | 400          | 0           |
| 9/26                       | 400         | 0            | 0           |
| 10/ 1                      | 7,200       | 800          | 0           |
| 10/ 2                      | 1,200       | 1,200        | 400         |
| 10/ 3                      | 800         | 1,600        | 0           |
| 10/ 4                      | 1,200       | 400          | 0           |
| 10/ 5                      | 1,200       | 800          | 400         |
| 10/ 6                      | 0           | 400          | 0           |
| 10/ 7                      | 2,400       | 800          | 0           |
| 10/ 8                      | 800         | 0            | 0           |
| 10/ 9                      | 8,400       | 0            | 400         |
| 10/10                      | 4,000       | 400          | 0           |
| 10/11                      | 2,400       | 400          | 0           |
| 10/12                      | 1,200       | 400          | 0           |
| 10/13                      | 400         | 400          | 0           |
| 10/14                      | 1,200       | 800          | 0           |
| 10/15                      | 0           | 4,400        | 0           |
| 10/16                      | 400         | 800          | 0           |
| 10/17                      | 5,200       | 2,400        | 0           |
| 10/18                      | 400         | 400          | 400         |
| 10/19                      | 2,800       | 400          | 0           |
| 10/20                      | 400         | 400          | 0           |
| 10/21                      | 2,000       | 1,200        | 0           |
| 10/22                      | 1,200       | 0            | 0           |
| 10/23                      | 1,200       | 0            | 0           |
| 10/24                      | 800         | 0            | 0           |
| 10/25                      | 1,200       | 0            | 0           |
| 10/26                      | 13,200      | 0            | 0           |
| 10/27                      | 400         | 0            | 0           |
| 10/28                      | 400         | 0            | 0           |
| 10/29                      | 800         | 0            | 0           |
| 10/30                      | 1,200       | 0            | 0           |
| 11/ 7                      | 400         | 0            | 0           |
| 11/ 8                      | 0           | 0            | 0           |
| 11/11                      | 0           | 400          | 0           |

TABLE A-30. PANDORINA (continued)  
(COUNT/81)

| 1974<br>DATE | EAST | SOUTH | WEST |
|--------------|------|-------|------|
| 11/13        | 0    | 0     | 0    |
| 11/15        | 0    | 0     | 0    |
| 11/21        | 0    | 0     | 0    |
| 11/25        | 0    | 0     | 0    |
| 11/26        | 0    | 0     | 0    |
| 12/ 4        | 0    | 0     | 0    |
| 12/ 6        | 0    | 0     | 0    |
| 12/ 9        | 0    | 0     | 0    |
| 12/11        | 0    | 0     | 0    |
| 12/17        | 0    | 0     | 0    |
| 12/19        | 0    | 0     | 0    |
| 12/23        | 0    | 0     | 0    |
| 12/27        | 0    | 0     | 0    |
| <u>1975</u>  |      |       |      |
| 1/ 3         | 0    | 0     | 0    |
| 1/ 4         | 0    | 0     | 0    |
| 1/ 5         | 0    | 0     | 0    |
| 1/ 6         | 0    | 0     | 0    |
| 1/ 7         | 0    | 0     | 0    |
| 1/ 8         | 0    | 0     | 0    |
| 1/ 9         | 0    | 0     | 0    |
| 1/10         | 0    | 0     | 0    |
| 1/11         | 0    | 0     | 0    |
| 1/12         | 0    | 0     | 0    |
| 1/13         | 0    | 0     | 0    |
| 1/14         | 0    | 0     | 0    |
| 1/15         | 0    | 0     | 0    |
| 1/16         | 0    | 0     | 0    |
| 1/17         | 0    | 0     | 0    |
| 1/18         | 0    | 0     | 0    |
| 1/19         | 0    | 0     | 0    |
| 1/20         | 0    | 0     | 0    |
| 1/21         | 0    | 0     | 0    |
| 1/22         | 0    | 0     | 0    |
| 1/23         | 0    | 0     | 0    |
| 1/24         | 0    | 0     | 0    |
| 1/25         | 0    | 0     | 0    |
| 1/26         | 0    | 0     | 0    |
| 1/27         | 0    | 0     | 0    |
| 1/28         | 0    | 0     | 0    |
| 1/29         | 0    | 0     | 0    |
| 1/30         | 0    | 0     | 0    |

TABLE A-30. PANDORA (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 1/31                       | 0           | 0            | 0           |
| 2/ 1                       | 0           | 0            | 0           |
| 2/ 6                       | 0           | 0            | 0           |
| 2/ 8                       | 0           | 0            | 0           |
| 2/11                       | 0           | 0            | 0           |
| 2/14                       | 0           | 0            | 0           |
| 2/16                       | 0           | 0            | 0           |
| 2/19                       | 0           | 0            | 0           |
| 2/25                       | 0           | 0            | 0           |
| 2/27                       | 0           | 0            | 0           |
| 3/ 4                       | 0           | 0            | 0           |
| 3/ 7                       | 0           | 0            | 0           |
| 3/13                       | 0           | 0            | 0           |
| 3/15                       | 0           | 0            | 0           |
| 3/18                       | 0           | 0            | 0           |
| 3/20                       | 0           | 0            | 0           |
| 3/26                       | 0           | 0            | 0           |
| 3/28                       | 0           | 0            | 0           |
| 4/ 1                       | 0           | 0            | 0           |
| 4/ 2                       | 0           | 0            | 0           |
| 4/ 3                       | 0           | 0            | 0           |
| 4/ 4                       | 0           | 0            | 0           |
| 4/ 5                       | 0           | 0            | 0           |
| 4/ 6                       | 0           | 0            | 0           |
| 4/ 7                       | 0           | 0            | 0           |
| 4/ 8                       | 0           | 0            | 0           |
| 4/ 9                       | 0           | 0            | 0           |
| 4/10                       | 0           | 0            | 0           |
| 4/11                       | 0           | 0            | 0           |
| 4/12                       | 0           | 0            | 0           |
| 4/13                       | 0           | 0            | 0           |
| 4/14                       | 0           | 0            | 0           |
| 4/15                       | 0           | 0            | 0           |
| 4/16                       | 0           | 0            | 0           |
| 4/17                       | 0           | 0            | 0           |
| 4/18                       | 0           | 0            | 0           |
| 4/19                       | 0           | 0            | 0           |
| 4/20                       | 0           | 0            | 0           |
| 4/21                       | 0           | 0            | 0           |
| 4/22                       | 0           | 0            | 0           |
| 4/23                       | 0           | 0            | 0           |
| 4/24                       | 0           | 0            | 0           |



TABLE A-30. PANDORINA (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/25                       | 0           | 0            | 0           |
| 4/26                       | 0           | 0            | 0           |
| 4/27                       | 0           | 0            | 0           |
| 4/28                       | 0           | 0            | 0           |
| 4/29                       | 0           | 0            | 0           |
| 4/30                       | 0           | 0            | 0           |
| 5/ 6                       | 0           | 0            | 0           |
| 5/ 9                       | 0           | 0            | 0           |
| 5/14                       | 0           | 0            | 0           |
| 5/17                       | 800         | 0            | 0           |
| 5/21                       | 400         | 0            | 0           |
| 5/23                       | 800         | 0            | 0           |
| 5/26                       | 800         | 0            | 0           |
| 5/29                       | 0           | 0            | 0           |
| 6/ 3                       | 0           | 0            | 0           |
| 6/ 6                       | 0           | 0            | 0           |
| 6/ 8                       | 0           | 0            | 0           |
| 6/11                       | 0           | 0            | 0           |
| 6/16                       | 0           | 0            | 0           |
| 6/20                       | 0           | 0            | 0           |
| 6/24                       | 0           | 0            | 0           |
| 6/28                       | 0           | 0            | 0           |
| 7/ 1                       | 0           | 0            | 0           |
| 7/ 2                       | 0           | 0            | 0           |
| 7/ 3                       | 0           | 0            | 0           |
| 7/ 4                       | 0           | 0            | 0           |
| 7/ 5                       | 0           | 0            | 0           |
| 7/ 6                       | 0           | 0            | 0           |
| 7/ 7                       | 0           | 0            | 0           |
| 7/ 8                       | 0           | 0            | 0           |
| 7/ 9                       | 0           | 0            | 0           |
| 7/10                       | 0           | 0            | 0           |
| 7/11                       | 0           | 0            | 0           |
| 7/12                       | 0           | 0            | 0           |
| 7/13                       | 0           | 0            | 0           |
| 7/14                       | 0           | 0            | 0           |
| 7/15                       | 0           | 0            | 0           |
| 7/16                       | 0           | 0            | 0           |
| 7/17                       | 0           | 0            | 0           |
| 7/18                       | 0           | 0            | 0           |

TABLE A-30. PARABOLINA (continued)  
(count/ml)

| 1975<br>DATE | EAST | SOUTH | WEST |
|--------------|------|-------|------|
| 7/19         | 0    | 0     | 0    |
| 7/20         | 0    | 0     | 0    |
| 7/21         | 0    | 0     | 0    |
| 7/22         | 0    | 0     | 0    |
| 7/23         | 0    | 0     | 0    |
| 7/24         | 0    | 0     | 0    |
| 7/25         | 0    | 0     | 0    |
| 7/26         | 0    | 0     | 0    |
| 7/27         | 0    | 0     | 0    |
| 7/28         | 0    | 0     | 0    |
| 7/29         | 0    | 0     | 0    |
| 7/30         | 0    | 0     | 0    |
| 8/ 5         | 0    | 0     | 0    |
| 8/ 7         | 0    | 0     | 0    |
| 8/11         | 0    | 0     | 0    |
| 8/12         | 0    | 0     | 0    |
| 8/20         | 0    | 0     | 0    |
| 8/22         | 0    | 0     | 0    |
| 8/26         | 0    | 0     | 0    |
| 8/28         | 0    | 0     | 0    |

TABLE A-31. OSCILLATORIA  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | 0           | 0            | 0           |
| 9/ 6                       | 0           | 0            | 0           |
| 9/10                       | 0           | 0            | 0           |
| 9/12                       | 13,600      | 16,800       | 32,400      |
| 9/16                       | 21,200      | 17,600       | 38,400      |
| 9/19                       | 74,800      | 20,400       | 28,000      |
| 9/23                       | 16,400      | 24,000       | 44,000      |
| 9/26                       | 17,600      | 20,400       | 48,800      |
| 10/ 1                      | 17,200      | 20,000       | 52,400      |
| 10/ 2                      | 20,800      | 20,400       | 62,000      |
| 10/ 3                      | 19,600      | 17,200       | 50,000      |
| 10/ 4                      | 26,000      | 22,000       | 44,000      |
| 10/ 5                      | 16,000      | 16,000       | 51,200      |
| 10/ 6                      | 22,200      | 19,600       | 50,800      |
| 10/ 7                      | 16,800      | 15,600       | 57,600      |
| 10/ 8                      | 16,400      | 16,800       | 64,400      |
| 10/ 9                      | 20,400      | 23,200       | 60,800      |
| 10/10                      | 18,400      | 26,400       | 58,000      |
| 10/11                      | 10,800      | 28,400       | 52,400      |
| 10/12                      | 16,800      | 20,000       | 65,600      |
| 10/13                      | 10,800      | 18,400       | 65,600      |
| 10/14                      | 16,500      | 24,000       | 65,600      |
| 10/15                      | 14,000      | 19,600       | 65,600      |
| 10/16                      | 14,000      | 22,400       | 69,200      |
| 10/17                      | 14,800      | 18,400       | 56,000      |
| 10/18                      | 18,800      | 27,600       | 69,200      |
| 10/19                      | 18,000      | 26,800       | 62,000      |
| 10/20                      | 18,800      | 23,600       | 66,800      |
| 10/21                      | 16,800      | 28,400       | 63,300      |
| 10/22                      | 9,200       | 26,000       | 64,400      |
| 10/23                      | 12,400      | 28,400       | 72,400      |
| 10/24                      | 12,800      | 22,000       | 52,000      |
| 10/25                      | 15,000      | 36,400       | 74,000      |
| 10/26                      | 13,200      | 26,800       | 70,800      |
| 10/27                      | 13,600      | 29,200       | 69,200      |
| 10/28                      | 10,800      | 30,800       | 72,400      |
| 10/29                      | 12,800      | 28,400       | 50,400      |
| 10/30                      | 18,000      | 32,400       | 62,400      |
| 11/ 7                      | 8,800       | 18,800       | 54,800      |
| 11/ 8                      | 11,200      | 27,600       | 56,400      |
| 11/11                      | 17,200      | 22,400       | 43,200      |

Table A-11. OSCILLATORIA (continued)  
(count/ml)

| 1974<br>DATE | EAST   | SOUTH  | WEST   |
|--------------|--------|--------|--------|
| 11/13        | 12,800 | 23,300 | 56,400 |
| 11/19        | 10,400 | 19,600 | 53,200 |
| 11/21        | 16,000 | 26,400 | 61,600 |
| 11/25        | 9,600  | 22,800 | 41,600 |
| 11/26        | 9,200  | 19,600 | 47,200 |
| 12/ 4        | 12,800 | 12,800 | 47,200 |
| 12/ 6        | 6,400  | 11,200 | 27,200 |
| 12/ 9        | 7,200  | 12,800 | 26,400 |
| 12/11        | 5,200  | 8,400  | 25,600 |
| 12/17        | 7,200  | 7,600  | 8,400  |
| 12/19        | 4,000  | 5,600  | 4,400  |
| 12/23        | 3,600  | 5,200  | 5,600  |
| 12/27        | 0      | 0      | 0      |
| <u>1975</u>  |        |        |        |
| 1/ 3         | 0      | 0      | 0      |
| 1/ 4         | 1,200  | 1,600  | 1,200  |
| 1/ 5         | 800    | 0      | 0      |
| 1/ 6         | 3,600  | 2,000  | 0      |
| 1/ 7         | 400    | 14,000 | 0      |
| 1/ 8         | 0      | 1,600  | 400    |
| 1/ 9         | 400    | 1,200  | 1,200  |
| 1/10         | 0      | 0      | 0      |
| 1/11         | 0      | 0      | 0      |
| 1/12         | 0      | 0      | 0      |
| 1/13         | 800    | 0      | 2,800  |
| 1/14         | 0      | 1,200  | 800    |
| 1/15         | 0      | 0      | 0      |
| 1/16         | 0      | 0      | 0      |
| 1/17         | 0      | 0      | 0      |
| 1/18         | 0      | 0      | 1,200  |
| 1/19         | 0      | 800    | 800    |
| 1/20         | 0      | 0      | 0      |
| 1/21         | 0      | 0      | 0      |
| 1/22         | 0      | 0      | 0      |
| 1/23         | 0      | 0      | 0      |
| 1/24         | 0      | 0      | 0      |
| 1/25         | 0      | 0      | 0      |
| 1/26         | 0      | 800    | 0      |
| 1/27         | 0      | 0      | 0      |
| 1/28         | 1,200  | 800    | 0      |
| 1/29         | 0      | 0      | 0      |
| 1/30         | 0      | 0      | 2,400  |

TABLE A-31. OSCILLATORIA (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST   |
|--------------|-------|-------|--------|
| 1/31         | 0     | 0     | 800    |
| 2/ 1         | 0     | 0     | 0      |
| 2/ 5         | 0     | 0     | 800    |
| 2/ 8         | 0     | 0     | 0      |
| 2/11         | 0     | 0     | 0      |
| 2/14         | 0     | 0     | 0      |
| 2/16         | 0     | 0     | 0      |
| 2/19         | 0     | 0     | 0      |
| 2/25         | 0     | 0     | 0      |
| 2/27         | 0     | 0     | 0      |
| 3/ 4         | 0     | 0     | 0      |
| 3/ 7         | 0     | 2,400 | 7,200  |
| 3/13         | 400   | 0     | 0      |
| 3/15         | 4,000 | 7,200 | 3,600  |
| 3/18         | 0     | 4,800 | 4,400  |
| 3/20         | 0     | 2,000 | 2,000  |
| 3/26         | 4,000 | 2,200 | 6,800  |
| 3/28         | 3,200 | 7,200 | 4,000  |
| 4/ 1         | 4,400 | 6,400 | 10,400 |
| 4/ 2         | 1,200 | 7,600 | 8,400  |
| 4/ 3         | 3,200 | 2,200 | 4,800  |
| 4/ 4         | 1,600 | 2,000 | 2,800  |
| 4/ 5         | 1,200 | 3,200 | 6,800  |
| 4/ 6         | 800   | 6,400 | 2,200  |
| 4/ 7         | 7,200 | 4,800 | 4,800  |
| 4/ 8         | 2,000 | 1,200 | 2,200  |
| 4/ 9         | 3,200 | 4,400 | 7,600  |
| 4/10         | 1,600 | 3,600 | 2,400  |
| 4/11         | 3,600 | 4,800 | 800    |
| 4/12         | 3,200 | 2,800 | 2,800  |
| 4/13         | 2,600 | 1,200 | 4,400  |
| 4/14         | 800   | 1,200 | 2,600  |
| 4/15         | 2,800 | 4,800 | 2,800  |
| 4/16         | 1,600 | 3,200 | 1,200  |
| 4/17         | 2,800 | 800   | 4,800  |
| 4/18         | 1,600 | 1,200 | 2,800  |
| 4/19         | 1,200 | 2,400 | 4,800  |
| 4/20         | 2,400 | 1,600 | 3,600  |
| 4/21         | 4,400 | 1,200 | 2,400  |
| 4/22         | 4,800 | 2,800 | 3,600  |
| 4/23         | 2,400 | 1,600 | 3,200  |
| 4/24         | 3,200 | 1,200 | 4,800  |

TABLE A- 31. OSCELLATORIA (continued)  
(count/ml)

| <u>1973</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/25                       | 2,400       | 800          | 4,400       |
| 4/26                       | 4,800       | 1,200        | 2,000       |
| 4/27                       | 1,600       | 4,400        | 7,600       |
| 4/28                       | 2,000       | 1,600        | 7,600       |
| 4/29                       | 5,600       | 7,600        | 12,400      |
| 4/30                       | 5,600       | 3,600        | 10,800      |
| 5/ 6                       | 12,400      | 7,200        | 13,600      |
| 5/ 9                       | 14,400      | 0,800        | 16,800      |
| 5/14                       | 7,200       | 15,200       | 34,400      |
| 5/17                       | 12,400      | 15,600       | 38,800      |
| 5/21                       | 11,200      | 32,400       | 45,200      |
| 5/23                       | 16,800      | 36,800       | 55,200      |
| 5/26                       | 10,800      | 41,200       | 49,600      |
| 5/29                       | 26,400      | 57,200       | 61,600      |
| 6/ 3                       | 35,600      | 38,800       | 70,800      |
| 6/ 6                       | 23,600      | 47,200       | 46,800      |
| 6/ 8                       | 24,800      | 18,400       | 72,800      |
| 6/11                       | 21,600      | 37,600       | 69,200      |
| 6/16                       | 20,600      | 41,200       | 69,200      |
| 6/20                       | 18,800      | 37,200       | 65,500      |
| 6/24                       | 28,800      | 64,400       | 62,400      |
| 6/28                       | 44,400      | 68,800       | 66,800      |
| 7/ 1                       | 78,800      | 90,800       | 58,800      |
| 7/ 2                       | 67,200      | 69,200       | 60,400      |
| 7/ 3                       | 91,200      | 66,800       | 39,200      |
| 7/ 4                       | 87,200      | 86,400       | 48,400      |
| 7/ 5                       | 73,200      | 69,600       | 61,600      |
| 7/ 6                       | 60,800      | 81,600       | 49,200      |
| 7/ 7                       | 75,200      | 67,600       | 46,400      |
| 7/ 8                       | 92,800      | 89,200       | 44,800      |
| 7/ 9                       | 82,400      | 43,200       | 48,400      |
| 7/10                       | 81,200      | 35,200       | 43,600      |
| 7/11                       | 35,200      | 63,200       | 43,600      |
| 7/12                       | 56,800      | 33,200       | 33,200      |
| 7/13                       | 66,400      | 33,600       | 49,200      |
| 7/14                       | 66,400      | 64,800       | 51,200      |
| 7/15                       | 49,200      | 84,400       | 47,200      |
| 7/16                       | 45,600      | 64,400       | 35,600      |
| 7/17                       | 60,800      | 40,400       | 52,800      |
| 7/18                       | 36,800      | 37,200       | 54,800      |

TABLE A- 31 : OBOLLIATORIA (continued)  
(count/mi)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/19                       | 42,400      | 50,400       | 35,200      |
| 7/20                       | 42,000      | 36,400       | 37,200      |
| 7/21                       | 93,600      | 62,800       | 15,600      |
| 7/22                       | 66,800      | 60,800       | 13,600      |
| 7/23                       | 37,200      | 73,600       | 26,800      |
| 7/24                       | 11,600      | 67,600       | 16,800      |
| 7/25                       | 10,800      | 67,200       | 12,800      |
| 7/26                       | 26,400      | 52,800       | 25,200      |
| 7/27                       | 28,800      | 59,200       | 13,600      |
| 7/28                       | 48,800      | 70,800       | 21,600      |
| 7/29                       | 64,400      | 72,400       | 19,600      |
| 7/30                       | 48,400      | 57,200       | 23,200      |
| 8/ 5                       | 50,000      | 67,600       | 31,200      |
| 8/ 7                       | 47,200      | 56,400       | 33,200      |
| 8/11                       | 60,800      | 72,800       | 43,600      |
| 8/12                       | 66,000      | 68,800       | 40,800      |
| 8/20                       | 14,400      | 62,600       | 42,400      |
| 8/22                       | 25,200      | 73,200       | 56,400      |
| 8/26                       | 26,400      | 42,400       | 57,200      |
| 8/28                       | 29,600      | 48,800       | 66,400      |



TABLE A- 32 : ANALYSTIS  
(count/ml)

| 1974<br>DATE | EAST | SOUTH | WEST  |
|--------------|------|-------|-------|
| 9/ 4         | 0    | 0     | 0     |
| 9/ 6         | 0    | 0     | 0     |
| 9/10         | 0    | 0     | 0     |
| 9/12         | 400  | 4,000 | 4,000 |
| 9/16         | 400  | 800   | 0     |
| 9/19         | 400  | 1,200 | 0     |
| 9/23         | 400  | 0     | 0     |
| 9/26         | 0    | 0     | 400   |
| 10/ 1        | 800  | 400   | 0     |
| 10/ 2        | 0    | 0     | 0     |
| 10/ 3        | 400  | 400   | 0     |
| 10/ 4        | 0    | 0     | 0     |
| 10/ 5        | 0    | 400   | 0     |
| 10/ 6        | 0    | 0     | 0     |
| 10/ 7        | 0    | 400   | 0     |
| 10/ 8        | 0    | 1,200 | 0     |
| 10/ 9        | 0    | 800   | 0     |
| 10/10        | 400  | 800   | 0     |
| 10/11        | 400  | 800   | 0     |
| 10/12        | 0    | 0     | 0     |
| 10/13        | 0    | 0     | 0     |
| 10/14        | 400  | 0     | 0     |
| 10/15        | 0    | 0     | 0     |
| 10/16        | 0    | 0     | 0     |
| 10/17        | 0    | 0     | 400   |
| 10/18        | 0    | 400   | 800   |
| 10/19        | 800  | 0     | 1,600 |
| 10/20        | 0    | 0     | 2,400 |
| 10/21        | 800  | 0     | 2,400 |
| 10/22        | 0    | 0     | 0     |
| 10/23        | 0    | 800   | 1,600 |
| 10/24        | 0    | 800   | 1,200 |
| 10/25        | 400  | 0     | 0     |
| 10/26        | 0    | 0     | 1,200 |
| 10/27        | 400  | 1,200 | 800   |
| 10/28        | 400  | 0     | 0     |
| 10/29        | 0    | 0     | 400   |
| 10/30        | 0    | 0     | 400   |
| 11/ 7        | 0    | 0     | 0     |
| 11/ 8        | 0    | 0     | 1,600 |
| 11/11        | 0    | 0     | 1,200 |

TABLE A- 32, ANACYSTIS (continued)  
(count/ml)

| 1974<br>DATE | EAST | SOUTH | WEST  |
|--------------|------|-------|-------|
| 11/13        | 800  | 0     | 800   |
| 11/19        | 400  | 0     | 400   |
| 11/21        | 0    | 800   | 400   |
| 11/25        | 0    | 0     | 800   |
| 11/26        | 0    | 0     | 2,800 |
| 12/ 4        | 0    | 0     | 1,200 |
| 12/ 6        | 0    | 0     | 0     |
| 12/ 9        | 400  | 0     | 400   |
| 12/11        | 0    | 0     | 800   |
| 12/17        | 400  | 0     | 0     |
| 12/19        | 800  | 0     | 400   |
| 12/23        | 0    | 0     | 0     |
| 12/27        | 0    | 0     | 0     |
| 1975         |      |       |       |
| 1/ 3         | 0    | 0     | 0     |
| 1/ 4         | 0    | 0     | 0     |
| 1/ 5         | 0    | 0     | 0     |
| 1/ 6         | 0    | 0     | 0     |
| 1/ 7         | 0    | 0     | 0     |
| 1/ 8         | 0    | 0     | 0     |
| 1/ 9         | 0    | 0     | 0     |
| 1/10         | 0    | 0     | 0     |
| 1/11         | 0    | 0     | 0     |
| 1/12         | 0    | 0     | 0     |
| 1/13         | 0    | 0     | 0     |
| 1/14         | 0    | 0     | 0     |
| 1/15         | 0    | 0     | 0     |
| 1/16         | 0    | 0     | 0     |
| 1/17         | 0    | 0     | 0     |
| 1/18         | 0    | 0     | 0     |
| 1/19         | 0    | 0     | 0     |
| 1/20         | 0    | 0     | 0     |
| 1/21         | 0    | 0     | 0     |
| 1/22         | 0    | 0     | 0     |
| 1/23         | 0    | 0     | 0     |
| 1/24         | 0    | 0     | 0     |
| 1/25         | 0    | 0     | 0     |
| 1/26         | 0    | 0     | 0     |
| 1/27         | 0    | 0     | 0     |
| 1/28         | 0    | 0     | 0     |
| 1/29         | 0    | 0     | 0     |
| 1/30         | 0    | 0     | 0     |

TABLE A- 32: ANALYSTS (continued)  
(COUNT/ML)

| 1973<br>DATE | EAST | SOUTH | WEST |
|--------------|------|-------|------|
| 1/31         | 0    | 0     | 0    |
| 2/ 1         | 0    | 0     | 0    |
| 2/ 3         | 0    | 0     | 0    |
| 2/ 8         | 0    | 0     | 0    |
| 2/11         | 0    | 0     | 0    |
| 2/14         | 0    | 0     | 0    |
| 2/16         | 0    | 0     | 0    |
| 2/19         | 0    | 0     | 0    |
| 2/25         | 0    | 0     | 0    |
| 2/27         | 0    | 0     | 0    |
| 3/ 4         | 0    | 0     | 0    |
| 3/ 7         | 0    | 0     | 0    |
| 3/13         | 0    | 0     | 0    |
| 3/15         | 0    | 0     | 0    |
| 3/18         | 0    | 0     | 0    |
| 3/20         | 0    | 0     | 0    |
| 3/26         | 0    | 0     | 0    |
| 3/28         | 0    | 0     | 0    |
| 4/ 1         | 0    | 0     | 0    |
| 4/ 2         | 0    | 0     | 0    |
| 4/ 3         | 0    | 0     | 0    |
| 4/ 4         | 0    | 0     | 0    |
| 4/ 5         | 0    | 0     | 0    |
| 4/ 6         | 0    | 0     | 0    |
| 4/ 7         | 0    | 0     | 0    |
| 4/ 8         | 0    | 0     | 0    |
| 4/ 9         | 0    | 0     | 0    |
| 4/10         | 0    | 0     | 0    |
| 4/11         | 0    | 0     | 0    |
| 4/12         | 0    | 0     | 0    |
| 4/13         | 0    | 0     | 0    |
| 4/14         | 0    | 0     | 0    |
| 4/15         | 0    | 0     | 0    |
| 4/16         | 0    | 0     | 0    |
| 4/17         | 0    | 0     | 0    |
| 4/18         | 0    | 0     | 0    |
| 4/19         | 0    | 0     | 0    |
| 4/20         | 0    | 0     | 0    |
| 4/21         | 0    | 0     | 0    |
| 4/22         | 0    | 0     | 0    |
| 4/23         | 0    | 0     | 0    |

TABLE A- 12. ANACYSTIS (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/24                       | 0           | 0            | 0           |
| 4/25                       | 0           | 0            | 0           |
| 4/26                       | 0           | 0            | 0           |
| 4/27                       | 0           | 0            | 0           |
| 4/28                       | 0           | 0            | 0           |
| 4/29                       | 0           | 0            | 0           |
| 4/30                       | 0           | 0            | 0           |
| 5/ 6                       | 0           | 0            | 0           |
| 5/ 9                       | 0           | 0            | 0           |
| 5/14                       | 0           | 0            | 0           |
| 5/17                       | 0           | 0            | 0           |
| 5/21                       | 0           | 0            | 0           |
| 5/23                       | 0           | 0            | 400         |
| 5/26                       | 0           | 0            | 1,200       |
| 5/29                       | 0           | 0            | 0           |
| 6/ 3                       | 0           | 0            | 1,200       |
| 6/ 6                       | 0           | 0            | 0           |
| 6/ 8                       | 0           | 0            | 0           |
| 6/11                       | 0           | 0            | 0           |
| 6/16                       | 0           | 0            | 0           |
| 6/20                       | 0           | 0            | 800         |
| 6/24                       | 0           | 2,400        | 400         |
| 6/26                       | 400         | 2,000        | 2,000       |
| 7/ 1                       | 2,800       | 4,000        | 400         |
| 7/ 2                       | 6,400       | 4,800        | 1,200       |
| 7/ 3                       | 1,200       | 1,200        | 400         |
| 7/ 4                       | 1,200       | 3,200        | 800         |
| 7/ 5                       | 3,200       | 3,200        | 1,600       |
| 7/ 6                       | 1,600       | 5,200        | 1,200       |
| 7/ 7                       | 3,200       | 0            | 1,200       |
| 7/ 8                       | 4,400       | 5,200        | 4,000       |
| 7/ 9                       | 3,200       | 3,600        | 400         |
| 7/10                       | 3,200       | 3,600        | 1,600       |
| 7/11                       | 3,200       | 1,200        | 400         |
| 7/12                       | 3,600       | 1,200        | 1,200       |
| 7/13                       | 3,600       | 800          | 400         |
| 7/14                       | 800         | 1,200        | 1,200       |
| 7/15                       | 2,000       | 2,800        | 3,600       |
| 7/16                       | 2,000       | 2,400        | 2,800       |

TABLE A- 32. ANALYSTIE (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/17                       | 1,200       | 800          | 1,600       |
| 7/18                       | 1,200       | 3,200        | 2,000       |
| 7/19                       | 2,000       | 2,400        | 1,600       |
| 7/20                       | 2,400       | 4,000        | 400         |
| 7/21                       | 2,600       | 2,800        | 2,000       |
| 7/22                       | 1,600       | 3,600        | 1,600       |
| 7/23                       | 1,600       | 3,600        | 1,200       |
| 7/24                       | 2,000       | 800          | 1,200       |
| 7/25                       | 2,400       | 6,000        | 1,600       |
| 7/26                       | 800         | 5,200        | 2,000       |
| 7/27                       | 4,000       | 3,600        | 800         |
| 7/28                       | 800         | 1,200        | 1,200       |
| 7/29                       | 1,600       | 3,600        | 1,200       |
| 7/30                       | 3,600       | 4,400        | 1,600       |
| 8/ 5                       | 1,200       | 2,400        | 1,200       |
| 8/ 7                       | 1,200       | 1,200        | 800         |
| 8/11                       | 800         | 3,200        | 4,800       |
| 8/12                       | 2,000       | 2,000        | 2,400       |
| 8/20                       | 1,200       | 3,600        | 400         |
| 8/22                       | 0           | 2,000        | 1,200       |
| 8/26                       | 0           | 800          | 1,200       |
| 8/28                       | 1,600       | 1,200        | 1,600       |

TABLE A- 33. ADHERELLUM  
(count/ml)

| <u>1976</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | 0           | 0            | 0           |
| 9/ 8                       | 0           | 0            | 0           |
| 9/10                       | 0           | 0            | 0           |
| 9/12                       | 0           | 0            | 0           |
| 9/16                       | 7,600       | 2,800        | 1,600       |
| 9/19                       | 400         | 800          | 1,600       |
| 9/23                       | 800         | 2,000        | 0           |
| 9/26                       | 6,000       | 800          | 0           |
| 10/ 1                      | 1,600       | 1,200        | 0           |
| 10/ 2                      | 2,400       | 400          | 0           |
| 10/ 3                      | 400         | 0            | 0           |
| 10/ 4                      | 800         | 0            | 0           |
| 10/ 5                      | 1,600       | 0            | 0           |
| 10/ 6                      | 3,200       | 400          | 0           |
| 10/ 7                      | 3,600       | 1,200        | 0           |
| 10/ 8                      | 5,600       | 1,600        | 1,200       |
| 10/ 9                      | 13,200      | 1,600        | 0           |
| 10/10                      | 6,800       | 0            | 0           |
| 10/11                      | 6,400       | 3,200        | 0           |
| 10/12                      | 8,000       | 5,200        | 0           |
| 10/13                      | 10,000      | 0            | 0           |
| 10/14                      | 8,800       | 4,000        | 0           |
| 10/15                      | 8,400       | 1,200        | 0           |
| 10/16                      | 6,400       | 4,800        | 1,200       |
| 10/17                      | 3,200       | 400          | 0           |
| 10/18                      | 14,400      | 0            | 0           |
| 10/19                      | 7,200       | 1,600        | 0           |
| 10/20                      | 0           | 0            | 0           |
| 10/21                      | 8,800       | 2,800        | 0           |
| 10/22                      | 13,600      | 4,800        | 0           |
| 10/23                      | 12,400      | 8,000        | 0           |
| 10/24                      | 12,000      | 800          | 0           |
| 10/25                      | 16,400      | 1,200        | 400         |
| 10/26                      | 1,200       | 0            | 0           |
| 10/27                      | 10,400      | 4,000        | 2,000       |
| 10/28                      | 18,800      | 6,400        | 800         |
| 10/29                      | 14,400      | 6,400        | 1,600       |
| 10/30                      | 10,400      | 4,800        | 800         |
| 11/ 7                      | 10,800      | 5,200        | 0           |
| 11/ 8                      | 8,400       | 1,600        | 400         |
| 11/11                      | 8,800       | 7,600        | 800         |
| 11/13                      | 9,600       | 5,200        | 800         |

TABLE A-11 : ALUMINUM (continued)  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 11/19                      | 6,000       | 1,200        | 1,200       |
| 11/21                      | 2,400       | 2,800        | 800         |
| 11/23                      | 3,200       | 2,400        | 0           |
| 11/26                      | 2,800       | 800          | 800         |
| 12/ 4                      | 1,600       | 3,200        | 0           |
| 12/ 6                      | 1,200       | 0            | 0           |
| 12/ 9                      | 800         | 0            | 0           |
| 12/11                      | 3,600       | 0            | 0           |
| 12/17                      | 1,600       | 0            | 400         |
| 12/19                      | 800         | 0            | 0           |
| 12/23                      | 0           | 400          | 0           |
| 12/27                      | 0           | 400          | 0           |
| <u>1975</u>                |             |              |             |
| 1/ 3                       | 0           | 0            | 0           |
| 1/ 4                       | 0           | 0            | 0           |
| 1/ 5                       | 0           | 0            | 0           |
| 1/ 6                       | 0           | 0            | 0           |
| 1/ 7                       | 0           | 0            | 0           |
| 1/ 8                       | 0           | 0            | 0           |
| 1/ 9                       | 0           | 0            | 0           |
| 1/10                       | 0           | 0            | 0           |
| 1/11                       | 0           | 0            | 0           |
| 1/12                       | 0           | 0            | 0           |
| 1/13                       | 0           | 0            | 0           |
| 1/14                       | 0           | 0            | 0           |
| 1/15                       | 0           | 0            | 0           |
| 1/16                       | 0           | 0            | 0           |
| 1/17                       | 0           | 0            | 0           |
| 1/18                       | 0           | 0            | 0           |
| 1/19                       | 0           | 0            | 0           |
| 1/20                       | 0           | 0            | 0           |
| 1/21                       | 0           | 0            | 0           |
| 1/22                       | 0           | 0            | 0           |
| 1/23                       | 0           | 0            | 0           |
| 1/24                       | 0           | 0            | 0           |
| 1/25                       | 0           | 0            | 0           |
| 1/26                       | 0           | 0            | 0           |
| 1/27                       | 0           | 0            | 0           |
| 1/28                       | 0           | 0            | 0           |
| 1/29                       | 0           | 0            | 0           |



TABLE A- 13. AGRIHILLUM (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST |
|--------------|-------|-------|------|
| 1/30         | 0     | 0     | 0    |
| 1/31         | 0     | 0     | 0    |
| 2/ 1         | 0     | 0     | 0    |
| 2/ 3         | 0     | 0     | 0    |
| 2/ 4         | 0     | 0     | 0    |
| 2/11         | 0     | 0     | 0    |
| 2/14         | 0     | 0     | 0    |
| 2/16         | 0     | 0     | 0    |
| 2/19         | 0     | 0     | 0    |
| 2/23         | 0     | 0     | 0    |
| 2/27         | 0     | 0     | 0    |
| 3/ 6         | 0     | 0     | 0    |
| 3/ 7         | 0     | 0     | 0    |
| 3/13         | 0     | 0     | 0    |
| 3/15         | 0     | 0     | 0    |
| 3/18         | 0     | 0     | 0    |
| 3/20         | 0     | 0     | 0    |
| 3/26         | 0     | 0     | 0    |
| 3/28         | 0     | 0     | 0    |
| 4/ 1         | 0     | 0     | 0    |
| 4/ 2         | 0     | 0     | 0    |
| 4/ 3         | 0     | 0     | 0    |
| 4/ 4         | 0     | 0     | 0    |
| 4/ 5         | 0     | 0     | 0    |
| 4/ 6         | 1,200 | 400   | 0    |
| 4/ 7         | 0     | 0     | 0    |
| 4/ 8         | 0     | 0     | 0    |
| 4/ 9         | 0     | 0     | 0    |
| 4/10         | 0     | 0     | 0    |
| 4/11         | 0     | 0     | 0    |
| 4/12         | 400   | 0     | 0    |
| 4/13         | 0     | 0     | 0    |
| 4/14         | 0     | 0     | 0    |
| 4/15         | 0     | 0     | 0    |
| 4/16         | 0     | 0     | 0    |
| 4/17         | 0     | 0     | 0    |
| 4/18         | 0     | 0     | 0    |
| 4/19         | 0     | 0     | 0    |
| 4/20         | 0     | 0     | 0    |
| 4/21         | 0     | 0     | 0    |
| 4/22         | 0     | 0     | 0    |

TABLE A- 11. ADRENELLUM (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/22                       | 0           | 0            | 0           |
| 4/23                       | 0           | 0            | 0           |
| 4/24                       | 0           | 0            | 0           |
| 4/25                       | 0           | 0            | 0           |
| 4/26                       | 0           | 0            | 0           |
| 4/27                       | 0           | 0            | 0           |
| 4/28                       | 0           | 0            | 0           |
| 4/29                       | 0           | 0            | 0           |
| 4/30                       | 0           | 0            | 0           |
| 5/ 6                       | 400         | 2,400        | 0           |
| 5/ 9                       | 0           | 0            | 0           |
| 5/14                       | 2,800       | 1,200        | 1,200       |
| 5/17                       | 1,600       | 0            | 0           |
| 5/21                       | 2,400       | 2,800        | 800         |
| 5/23                       | 2,400       | 1,200        | 0           |
| 5/26                       | 14,800      | 1,600        | 800         |
| 5/29                       | 13,600      | 2,000        | 400         |
| 6/ 3                       | 1,200       | 2,600        | 0           |
| 6/ 6                       | 1,200       | 1,200        | 0           |
| 6/ 8                       | 7,600       | 2,200        | 6,400       |
| 6/11                       | 16,800      | 8,400        | 4,800       |
| 6/16                       | 6,800       | 11,200       | 0           |
| 6/20                       | 1,600       | 6,400        | 800         |
| 6/24                       | 2,800       | 0            | 3,200       |
| 6/28                       | 0           | 2,600        | 0           |
| 7/ 1                       | 8,800       | 7,600        | 800         |
| 7/ 2                       | 9,200       | 11,200       | 2,000       |
| 7/ 3                       | 16,800      | 7,600        | 800         |
| 7/ 6                       | 4,800       | 3,200        | 4,400       |
| 7/ 8                       | 11,600      | 3,600        | 2,400       |
| 7/ 9                       | 6,400       | 2,600        | 2,400       |
| 7/11                       | 2,400       | 800          | 1,600       |
| 7/12                       | 2,400       | 2,400        | 0           |
| 7/13                       | 1,200       | 0            | 0           |
| 7/14                       | 8,000       | 6,800        | 1,200       |
| 7/15                       | 10,400      | 2,200        | 7,200       |
| 7/16                       | 11,600      | 8,400        | 2,600       |
| 7/17                       | 12,600      | 9,600        | 4,000       |
| 7/18                       | 9,600       | 4,800        | 2,000       |
| 7/19                       | 9,200       | 1,600        | 1,200       |
| 7/20                       | 12,400      | 2,600        | 1,200       |

TABLE A- 33. ADRENELLUM (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/17                       | 6,800       | 1,200        | 1,200       |
| 7/18                       | 6,400       | 3,600        | 3,800       |
| 7/19                       | 5,600       | 5,600        | 1,200       |
| 7/20                       | 6,400       | 5,600        | 6,400       |
| 7/21                       | 3,200       | 1,200        | 0           |
| 7/22                       | 1,200       | 2,400        | 1,200       |
| 7/23                       | 6,400       | 7,800        | 400         |
| 7/24                       | 1,200       | 1,200        | 400         |
| 7/25                       | 6,400       | 3,200        | 1,200       |
| 7/26                       | 2,400       | 800          | 6,000       |
| 7/27                       | 5,600       | 8,400        | 400         |
| 7/28                       | 7,200       | 3,200        | 800         |
| 7/29                       | 1,200       | 800          | 0           |
| 7/30                       | 3,200       | 2,400        | 800         |
| 8/ 3                       | 9,200       | 3,200        | 800         |
| 8/ 7                       | 2,400       | 1,600        | 400         |
| 8/11                       | 5,200       | 4,800        | 800         |
| 8/12                       | 6,400       | 1,600        | 4,400       |
| 8/16                       | 0           | 3,200        | 6,400       |
| 8/22                       | 800         | 5,200        | 1,200       |
| 8/26                       | 7,600       | 11,200       | 0           |
| 8/28                       | 3,600       | 4,400        | 2,400       |

TABLE A-31. HITZCHIA  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/12                       | 2,800       | 2,400        | 2,400       |
| 9/16                       | 1,200       | 7,600        | 800         |
| 9/19                       | 2,000       | 1,600        | 400         |
| 9/26                       | 400         | 400          | 1,600       |
| 9/26                       | 1,200       | 800          | 800         |
| 10/ 1                      | 5,600       | 400          | 400         |
| 10/ 2                      | 800         | 400          | 0           |
| 10/ 3                      | 0           | 0            | 400         |
| 10/ 4                      | 400         | 1,600        | 1,200       |
| 10/ 5                      | 1,200       | 400          | 2,000       |
| 10/ 6                      | 2,000       | 0            | 800         |
| 10/ 7                      | 2,800       | 1,200        | 400         |
| 10/ 8                      | 1,600       | 800          | 1,200       |
| 10/ 9                      | 9,600       | 5,200        | 400         |
| 10/10                      | 1,600       | 2,000        | 1,200       |
| 10/11                      | 2,400       | 2,800        | 2,400       |
| 10/12                      | 800         | 800          | 400         |
| 10/13                      | 400         | 800          | 800         |
| 10/14                      | 2,000       | 6,000        | 400         |
| 10/15                      | 4,000       | 0            | 2,800       |
| 10/16                      | 1,200       | 2,800        | 1,200       |
| 10/17                      | 1,200       | 2,800        | 2,800       |
| 10/18                      | 11,200      | 8,400        | 3,200       |
| 10/19                      | 6,800       | 11,200       | 1,600       |
| 10/20                      | 6,000       | 11,200       | 6,400       |
| 10/21                      | 8,000       | 4,400        | 3,600       |
| 10/22                      | 13,200      | 9,200        | 7,600       |
| 10/23                      | 12,800      | 11,200       | 7,200       |
| 10/24                      | 4,000       | 8,400        | 6,800       |
| 10/25                      | 12,400      | 12,800       | 1,200       |
| 10/26                      | 17,200      | 20,400       | 9,200       |
| 10/27                      | 9,600       | 12,800       | 9,200       |
| 10/28                      | 14,400      | 9,200        | 6,000       |
| 10/29                      | 11,600      | 16,800       | 7,600       |
| 10/30                      | 12,800      | 8,800        | 4,400       |
| 11/ 7                      | 1,200       | 4,400        | 4,000       |
| 11/ 8                      | 12,800      | 12,200       | 5,600       |
| 11/11                      | 13,600      | 16,400       | 6,800       |
| 11/13                      | 14,400      | 14,800       | 5,200       |
| 11/19                      | 10,800      | 14,000       | 10,000      |

TABLE A-34. RITZCHIA (continued)  
(count/ml)

| 1974<br>DATE | EAST   | SOUTH  | WEST   |
|--------------|--------|--------|--------|
| 11/21        | 10,400 | 9,600  | 10,400 |
| 11/25        | 6,800  | 16,400 | 14,200 |
| 11/26        | 12,400 | 8,000  | 12,800 |
| 12/ 4        | 7,200  | 6,400  | 16,400 |
| 12/ 6        | 6,800  | 9,600  | 12,400 |
| 12/ 9        | 8,800  | 6,800  | 9,200  |
| 12/11        | 8,400  | 7,200  | 9,200  |
| 12/17        | 7,600  | 5,400  | 1,200  |
| 12/19        | 6,800  | 11,200 | 1,600  |
| 12/23        | 6,800  | 9,200  | 3,600  |
| 12/27        | 0      | 800    | 0      |
| 1975         |        |        |        |
| 1/ 3         | 3,200  | 0      | 0      |
| 1/ 4         | 800    | 1,600  | 0      |
| 1/ 5         | 2,800  | 0      | 0      |
| 1/ 6         | 2,000  | 1,600  | 0      |
| 1/ 7         | 0      | 0      | 0      |
| 1/ 8         | 0      | 0      | 0      |
| 1/ 9         | 0      | 2,800  | 0      |
| 1/10         | 0      | 0      | 0      |
| 1/11         | 0      | 0      | 0      |
| 1/12         | 0      | 0      | 0      |
| 1/13         | 0      | 0      | 0      |
| 1/14         | 2,200  | 800    | 0      |
| 1/15         | 0      | 800    | 0      |
| 1/16         | 0      | 0      | 0      |
| 1/17         | 0      | 1,200  | 0      |
| 1/18         | 0      | 1,600  | 800    |
| 1/19         | 2,800  | 2,000  | 0      |
| 1/20         | 1,600  | 2,000  | 1,600  |
| 1/21         | 0      | 800    | 0      |
| 1/22         | 800    | 2,000  | 800    |
| 1/23         | 1,200  | 0      | 0      |
| 1/24         | 0      | 0      | 0      |
| 1/25         | 400    | 2,000  | 400    |
| 1/26         | 1,600  | 0      | 1,200  |
| 1/27         | 400    | 1,200  | 800    |
| 1/28         | 0      | 0      | 0      |
| 1/29         | 0      | 0      | 0      |
| 1/30         | 0      | 0      | 0      |

TABLE A-34. HITZBURIA (continued)  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 1/31                       | 0           | 0            | 0           |
| 2/ 1                       | 1,200       | 0            | 1,600       |
| 2/ 6                       | 0           | 0            | 800         |
| 2/ 8                       | 2,800       | 400          | 0           |
| 2/11                       | 2,200       | 800          | 2,000       |
| 2/14                       | 2,000       | 600          | 0           |
| 2/16                       | 800         | 400          | 0           |
| 2/19                       | 0           | 0            | 0           |
| 2/25                       | 0           | 0            | 0           |
| 2/27                       | 0           | 0            | 0           |
| 3/ 4                       | 0           | 0            | 0           |
| 3/ 7                       | 0           | 0            | 0           |
| 3/13                       | 0           | 0            | 0           |
| 3/15                       | 0           | 0            | 0           |
| 3/18                       | 0           | 1,200        | 0           |
| 3/20                       | 0           | 0            | 2,800       |
| 3/26                       | 2,200       | 400          | 1,200       |
| 3/28                       | 1,600       | 4,800        | 2,800       |
| 4/ 1                       | 2,600       | 2,800        | 2,000       |
| 4/ 2                       | 2,800       | 800          | 800         |
| 4/ 3                       | 800         | 800          | 0           |
| 4/ 4                       | 0           | 0            | 0           |
| 4/ 5                       | 0           | 0            | 0           |
| 4/ 6                       | 2,000       | 1,200        | 1,200       |
| 4/ 7                       | 1,600       | 1,600        | 0           |
| 4/ 8                       | 1,200       | 1,600        | 1,200       |
| 4/ 9                       | 1,200       | 800          | 800         |
| 4/10                       | 4,800       | 2,400        | 600         |
| 4/11                       | 2,000       | 1,200        | 800         |
| 4/12                       | 800         | 800          | 800         |
| 4/13                       | 1,600       | 1,200        | 800         |
| 4/14                       | 800         | 0            | 0           |
| 4/15                       | 0           | 2,000        | 1,200       |
| 4/16                       | 1,600       | 0            | 0           |
| 4/17                       | 2,800       | 400          | 0           |
| 4/18                       | 400         | 800          | 0           |
| 4/19                       | 1,600       | 0            | 0           |
| 4/20                       | 1,200       | 0            | 0           |
| 4/21                       | 2,800       | 800          | 0           |
| 4/22                       | 800         | 2,800        | 0           |

TABLE A-76: NITECHIA (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/23                       | 1,600       | 1,200        | 0           |
| 4/24                       | 0           | 0            | 1,600       |
| 4/25                       | 400         | 1,200        | 1,200       |
| 4/26                       | 1,600       | 1,800        | 1,600       |
| 4/28                       | 3,200       | 0            | 400         |
| 4/29                       | 2,400       | 3,600        | 1,600       |
| 4/30                       | 0           | 1,600        | 7,200       |
| 5/ 6                       | 7,200       | 9,200        | 8,400       |
| 5/ 9                       | 7,200       | 7,200        | 3,600       |
| 5/14                       | 3,200       | 6,800        | 13,600      |
| 5/17                       | 7,200       | 13,600       | 8,400       |
| 5/21                       | 10,400      | 12,800       | 7,600       |
| 5/23                       | 28,800      | 42,400       | 7,200       |
| 5/26                       | 19,600      | 19,200       | 11,200      |
| 5/29                       | 16,800      | 13,600       | 3,600       |
| 6/ 6                       | 14,800      | 6,400        | 7,600       |
| 6/ 8                       | 10,400      | 10,800       | 3,600       |
| 6/11                       | 8,800       | 12,000       | 6,000       |
| 6/16                       | 16,800      | 12,800       | 3,200       |
| 6/20                       | 3,200       | 10,800       | 1,600       |
| 6/24                       | 6,400       | 12,400       | 3,600       |
| 6/28                       | 6,400       | 12,400       | 2,000       |
| 7/ 1                       | 6,800       | 22,800       | 4,400       |
| 7/ 2                       | 7,200       | 13,600       | 3,600       |
| 7/ 3                       | 6,400       | 11,200       | 3,200       |
| 7/ 4                       | 4,600       | 7,600        | 2,000       |
| 7/ 5                       | 6,000       | 11,200       | 2,800       |
| 7/ 6                       | 3,200       | 11,600       | 2,800       |
| 7/ 7                       | 9,600       | 6,800        | 3,600       |
| 7/ 8                       | 10,400      | 8,400        | 2,800       |
| 7/ 9                       | 11,600      | 8,400        | 3,600       |
| 7/10                       | 12,800      | 8,400        | 3,600       |
| 7/11                       | 3,200       | 3,200        | 3,200       |
| 7/12                       | 12,400      | 3,600        | 4,400       |
| 7/13                       | 19,000      | 6,000        | 2,400       |
| 7/14                       | 8,800       | 9,200        | 1,600       |
| 7/15                       | 7,600       | 7,600        | 6,800       |
| 7/16                       | 8,000       | 3,600        | 2,800       |
| 7/17                       | 3,600       | 1,600        | 2,000       |
| 7/18                       | 11,200      | 11,600       | 1,600       |



TABLE A-14. *HETERCHIA* (continued)  
(count/ml)

| 1973<br>DATE | EAST   | SOUTH  | WEST  |
|--------------|--------|--------|-------|
| 7/19         | 6,400  | 1,200  | 1,600 |
| 7/20         | 10,400 | 5,200  | 1,200 |
| 7/21         | 10,000 | 3,200  | 1,600 |
| 7/22         | 10,800 | 16,400 | 0     |
| 7/23         | 13,600 | 13,200 | 1,200 |
| 7/24         | 2,400  | 4,000  | 1,000 |
| 7/25         | 5,600  | 1,200  | 1,200 |
| 7/26         | 7,600  | 3,200  | 4,000 |
| 7/27         | 7,600  | 12,800 | 6,400 |
| 7/28         | 9,200  | 6,800  | 1,200 |
| 7/29         | 2,800  | 10,400 | 800   |
| 7/30         | 6,400  | 7,600  | 8,400 |
| 8/ 3         | 7,600  | 4,800  | 3,600 |
| 8/ 7         | 4,400  | 800    | 1,600 |
| 8/11         | 6,800  | 10,400 | 6,400 |
| 8/12         | 4,800  | 0      | 7,200 |
| 8/20         | 7,600  | 5,600  | 1,200 |
| 8/22         | 4,400  | 13,600 | 3,200 |
| 8/26         | 7,600  | 2,000  | 1,600 |
| 8/28         | 4,400  | 5,600  | 3,200 |

TABLE A-35. DIATOM  
(count/ml)

| 1974<br>DATE | EAST   | SOUTH  | WEST  |
|--------------|--------|--------|-------|
| 9/ 4         | 0      | 0      | 0     |
| 9/ 6         | 0      | 0      | 0     |
| 9/10         | 0      | 0      | 0     |
| 9/12         | 6,400  | 2,400  | 2,400 |
| 9/16         | 1,200  | 7,600  | 800   |
| 9/19         | 2,000  | 1,600  | 600   |
| 9/24         | 400    | 400    | 1,600 |
| 9/26         | 3,200  | 800    | 800   |
| 10/ 1        | 3,600  | 400    | 400   |
| 10/ 2        | 800    | 400    | 0     |
| 10/ 3        | 0      | 0      | 400   |
| 10/ 4        | 400    | 1,600  | 1,200 |
| 10/ 5        | 1,200  | 400    | 2,000 |
| 10/ 6        | 2,000  | 0      | 800   |
| 10/ 7        | 2,800  | 1,200  | 600   |
| 10/ 8        | 1,600  | 800    | 1,200 |
| 10/ 9        | 9,600  | 2,200  | 400   |
| 10/10        | 3,600  | 2,000  | 1,200 |
| 10/11        | 2,400  | 2,800  | 2,400 |
| 10/12        | 800    | 800    | 400   |
| 10/13        | 400    | 800    | 800   |
| 10/14        | 2,000  | 6,000  | 400   |
| 10/15        | 4,000  | 0      | 2,800 |
| 10/16        | 1,200  | 2,800  | 3,200 |
| 10/17        | 1,200  | 2,800  | 2,800 |
| 10/18        | 11,200 | 8,400  | 5,200 |
| 10/19        | 6,800  | 11,200 | 3,600 |
| 10/20        | 6,000  | 11,200 | 4,400 |
| 10/21        | 8,000  | 4,400  | 3,600 |
| 10/22        | 13,200 | 9,200  | 7,600 |
| 10/23        | 12,800 | 11,200 | 7,200 |
| 10/24        | 4,000  | 8,400  | 4,800 |
| 10/25        | 12,400 | 12,800 | 3,200 |
| 10/26        | 17,200 | 20,400 | 4,200 |
| 10/27        | 9,600  | 12,800 | 9,200 |
| 10/28        | 14,400 | 9,200  | 8,000 |
| 10/29        | 11,600 | 16,800 | 7,600 |
| 10/30        | 12,800 | 8,800  | 4,400 |
| 11/ 7        | 1,200  | 4,400  | 4,000 |
| 11/ 8        | 12,800 | 12,200 | 5,600 |
| 11/11        | 13,600 | 16,400 | 6,800 |

TABLE A-15. DIATOMS (continued)  
(count/ml)

| <u>1976</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 11/13                      | 16,600      | 16,800       | 9,200       |
| 11/19                      | 10,800      | 16,000       | 10,000      |
| 11/21                      | 10,600      | 9,600        | 10,600      |
| 11/25                      | 8,800       | 16,600       | 11,200      |
| 11/26                      | 12,600      | 8,000        | 12,800      |
| 12/ 4                      | 7,200       | 6,400        | 16,600      |
| 12/ 6                      | 6,800       | 9,600        | 12,600      |
| 12/ 9                      | 8,800       | 6,800        | 9,200       |
| 12/11                      | 8,400       | 7,200        | 9,200       |
| 12/17                      | 7,600       | 5,600        | 1,200       |
| 12/19                      | 6,800       | 11,200       | 1,600       |
| 12/23                      | 6,800       | 9,200        | 1,600       |
| 12/27                      | 0           | 800          | 0           |
| <u>1975</u>                |             |              |             |
| 1/ 3                       | 3,200       | 0            | 0           |
| 1/ 4                       | 800         | 1,600        | 0           |
| 1/ 5                       | 2,800       | 0            | 0           |
| 1/ 6                       | 2,000       | 1,600        | 0           |
| 1/ 7                       | 0           | 0            | 0           |
| 1/ 8                       | 0           | 0            | 0           |
| 1/ 9                       | 0           | 2,800        | 0           |
| 1/10                       | 0           | 0            | 0           |
| 1/11                       | 0           | 0            | 0           |
| 1/12                       | 0           | 0            | 0           |
| 1/13                       | 0           | 0            | 0           |
| 1/14                       | 5,200       | 800          | 0           |
| 1/15                       | 0           | 800          | 0           |
| 1/16                       | 0           | 0            | 0           |
| 1/17                       | 0           | 1,200        | 0           |
| 1/18                       | 0           | 1,600        | 800         |
| 1/19                       | 2,800       | 2,000        | 0           |
| 1/20                       | 1,600       | 2,000        | 1,600       |
| 1/21                       | 0           | 800          | 0           |
| 1/22                       | 800         | 2,000        | 800         |
| 1/23                       | 1,200       | 0            | 0           |
| 1/24                       | 0           | 0            | 0           |
| 1/25                       | 600         | 2,000        | 600         |
| 1/26                       | 1,600       | 0            | 1,200       |
| 1/27                       | 600         | 1,200        | 800         |
| 1/28                       | 0           | 0            | 0           |

TABLE A-35. DIATOMS (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST  |
|--------------|-------|-------|-------|
| 1/29         | 0     | 0     | 0     |
| 1/30         | 0     | 0     | 0     |
| 1/31         | 0     | 0     | 0     |
| 2/ 1         | 1,200 | 0     | 1,600 |
| 2/ 6         | 0     | 0     | 800   |
| 2/ 8         | 2,800 | 400   | 0     |
| 2/11         | 2,200 | 800   | 2,000 |
| 2/14         | 2,000 | 600   | 0     |
| 2/16         | 800   | 400   | 0     |
| 2/19         | 0     | 0     | 0     |
| 2/25         | 0     | 0     | 0     |
| 2/27         | 0     | 0     | 0     |
| 3/ 4         | 0     | 0     | 0     |
| 3/ 7         | 0     | 0     | 0     |
| 3/13         | 0     | 0     | 0     |
| 3/15         | 0     | 0     | 0     |
| 3/18         | 0     | 1,200 | 0     |
| 3/20         | 0     | 0     | 2,800 |
| 3/26         | 2,200 | 400   | 1,200 |
| 3/28         | 1,600 | 4,800 | 2,800 |
| 4/ 1         | 2,600 | 2,800 | 2,000 |
| 4/ 2         | 2,800 | 800   | 800   |
| 4/ 3         | 800   | 800   | 0     |
| 4/ 4         | 0     | 0     | 0     |
| 4/ 5         | 0     | 0     | 0     |
| 4/ 6         | 2,000 | 1,200 | 1,200 |
| 4/ 7         | 1,600 | 1,600 | 0     |
| 4/ 8         | 1,200 | 1,600 | 1,200 |
| 4/ 9         | 1,200 | 800   | 800   |
| 4/10         | 4,800 | 2,400 | 800   |
| 4/11         | 2,000 | 1,200 | 800   |
| 4/12         | 800   | 800   | 800   |
| 4/13         | 1,600 | 1,200 | 800   |
| 4/14         | 800   | 0     | 0     |
| 4/15         | 0     | 2,000 | 1,200 |
| 4/16         | 1,600 | 0     | 0     |
| 4/17         | 2,800 | 400   | 0     |
| 4/18         | 400   | 800   | 0     |
| 4/19         | 1,600 | 0     | 0     |
| 4/20         | 1,200 | 0     | 0     |
| 4/21         | 2,800 | 800   | 0     |

TABLE A-35. BIATONE (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/22                       | 800         | 2,800        | 0           |
| 4/23                       | 1,600       | 1,200        | 0           |
| 4/24                       | 0           | 0            | 1,600       |
| 4/25                       | 400         | 1,200        | 1,200       |
| 4/26                       | 1,600       | 1,600        | 1,600       |
| 4/27                       | 700         | 1,600        | 7,000       |
| 4/28                       | 3,200       | 0            | 400         |
| 4/29                       | 2,400       | 3,600        | 1,600       |
| 4/30                       | 0           | 1,600        | 7,200       |
| 5/ 6                       | 7,200       | 9,200        | 8,400       |
| 5/ 9                       | 7,200       | 7,200        | 5,600       |
| 5/14                       | 5,200       | 6,800        | 13,600      |
| 5/17                       | 7,200       | 13,600       | 8,400       |
| 5/21                       | 10,400      | 12,800       | 7,600       |
| 5/23                       | 28,800      | 42,400       | 7,200       |
| 5/26                       | 19,600      | 19,200       | 11,200      |
| 5/29                       | 36,800      | 13,600       | 3,600       |
| 6/ 3                       | 10,400      | 14,400       | 7,600       |
| 6/ 6                       | 14,800      | 6,400        | 7,600       |
| 6/ 8                       | 10,400      | 10,800       | 3,600       |
| 6/11                       | 8,800       | 12,000       | 6,000       |
| 6/16                       | 16,800      | 12,800       | 3,200       |
| 6/20                       | 5,200       | 10,800       | 1,600       |
| 6/24                       | 6,400       | 12,400       | 3,600       |
| 6/28                       | 6,400       | 12,400       | 200         |
| 7/ 1                       | 6,800       | 22,800       | 4,400       |
| 7/ 2                       | 7,600       | 13,600       | 6,800       |
| 7/ 3                       | 6,400       | 11,200       | 5,200       |
| 7/ 4                       | 3,600       | 1,600        | 2,000       |
| 7/ 5                       | 6,000       | 11,200       | 2,800       |
| 7/ 6                       | 5,200       | 11,600       | 2,800       |
| 7/ 7                       | 9,600       | 6,800        | 3,600       |
| 7/ 8                       | 10,400      | 8,400        | 2,800       |
| 7/ 9                       | 11,800      | 8,400        | 3,600       |
| 7/10                       | 12,800      | 8,400        | 5,600       |
| 7/11                       | 5,200       | 5,200        | 3,200       |
| 7/12                       | 2,400       | 3,600        | 4,400       |
| 7/13                       | 19,600      | 6,000        | 2,400       |
| 7/14                       | 8,700       | 9,200        | 1,600       |
| 7/15                       | 7,600       | 7,600        | 6,800       |
| 7/16                       | 8,000       | 3,600        | 2,800       |

TABLE A-35. BIATONS (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/17                       | 3,600       | 1,600        | 2,000       |
| 7/18                       | 11,700      | 11,600       | 1,600       |
| 7/19                       | 6,500       | 1,200        | 1,600       |
| 7/20                       | 10,400      | 3,200        | 1,200       |
| 7/21                       | 10,000      | 3,200        | 1,600       |
| 7/22                       | 10,800      | 16,400       | 0           |
| 7/23                       | 13,600      | 13,200       | 1,200       |
| 7/24                       | 2,400       | 6,000        | 1,600       |
| 7/25                       | 3,600       | 1,200        | 1,200       |
| 7/26                       | 7,600       | 3,200        | 6,000       |
| 7/27                       | 7,600       | 12,800       | 6,400       |
| 7/28                       | 9,300       | 6,800        | 1,200       |
| 7/29                       | 2,800       | 10,400       | 800         |
| 7/30                       | 8,400       | 7,200        | 8,400       |
| 8/ 3                       | 7,600       | 6,800        | 3,600       |
| 8/ 7                       | 4,400       | 800          | 1,600       |
| 8/11                       | 6,800       | 10,400       | 6,400       |
| 8/12                       | 4,800       | 0            | 7,200       |
| 8/20                       | 7,600       | 3,600        | 1,200       |
| 8/22                       | 4,400       | 13,600       | 3,200       |
| 8/26                       | 7,600       | 2,000        | 1,600       |
| 8/28                       | 4,400       | 3,600        | 3,200       |

TABLE A-16. FRUIT/10A  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | 0           | 0            | 0           |
| 9/ 6                       | 0           | 0            | 0           |
| 9/10                       | 0           | 0            | 0           |
| 9/12                       | 0           | 0            | 0           |
| 9/16                       | 0           | 0            | 0           |
| 9/19                       | 0           | 800          | 0           |
| 9/24                       | 4,800       | 1,200        | 1,200       |
| 9/26                       | 4,400       | 800          | 400         |
| 10/ 1                      | 7,200       | 4,800        | 1,200       |
| 10/ 2                      | 2,800       | 0            | 800         |
| 10/ 3                      | 4,400       | 800          | 0           |
| 10/ 4                      | 800         | 0            | 0           |
| 10/ 5                      | 800         | 400          | 800         |
| 10/ 6                      | 2,000       | 0            | 0           |
| 10/ 7                      | 400         | 400          | 800         |
| 10/ 8                      | 3,200       | 400          | 1,600       |
| 10/ 9                      | 800         | 400          | 800         |
| 10/10                      | 1,200       | 800          | 800         |
| 10/11                      | 800         | 800          | 800         |
| 10/12                      | 0           | 400          | 1,200       |
| 10/13                      | 400         | 1,200        | 400         |
| 10/14                      | 0           | 400          | 1,200       |
| 10/15                      | 400         | 1,200        | 400         |
| 10/16                      | 0           | 800          | 800         |
| 10/17                      | 800         | 400          | 0           |
| 10/18                      | 800         | 800          | 400         |
| 10/19                      | 2,400       | 0            | 400         |
| 10/20                      | 0           | 0            | 0           |
| 10/21                      | 400         | 800          | 0           |
| 10/22                      | 1,200       | 0            | 0           |
| 10/23                      | 3,600       | 0            | 800         |
| 10/24                      | 5,200       | 0            | 0           |
| 10/25                      | 4,800       | 400          | 0           |
| 10/26                      | 400         | 800          | 0           |
| 10/27                      | 3,200       | 0            | 200         |
| 10/28                      | 1,600       | 0            | 0           |
| 10/29                      | 11,200      | 0            | 0           |
| 10/30                      | 3,400       | 0            | 0           |
| 11/ 7                      | 6,400       | 0            | 0           |
| 11/ 8                      | 4,800       | 0            | 0           |
| 11/11                      | 1,200       | 800          | 800         |



TABLE A-36: PROTOZOA (continued)  
(count/ml)

| 1974<br>DATE | EAST   | SOUTH  | WEST   |
|--------------|--------|--------|--------|
| 11/13        | 5,200  | 800    | 0      |
| 11/19        | 11,200 | 0      | 0      |
| 11/21        | 2,800  | 0      | 0      |
| 11/25        | 3,600  | 0      | 0      |
| 11/26        | 4,000  | 0      | 0      |
| 12/ 4        | 800    | 0      | 0      |
| 12/ 6        | 2,800  | 0      | 0      |
| 12/ 9        | 2,800  | 0      | 0      |
| 12/11        | 4,800  | 0      | 400    |
| 12/17        | 1,600  | 0      | 0      |
| 12/19        | 2,000  | 0      | 0      |
| 12/23        | 1,300  | 0      | 0      |
| 12/27        | 400    | 0      | 0      |
| <u>1975</u>  |        |        |        |
| 1/ 3         | 0      | 0      | 1,400  |
| 1/ 4         | 400    | 13,600 | 10,400 |
| 1/ 5         | 1,300  | 6,000  | 13,600 |
| 1/ 6         | 3,600  | 9,200  | 11,400 |
| 1/ 7         | 1,600  | 2,800  | 2,800  |
| 1/ 8         | 12,000 | 5,600  | 2,000  |
| 1/ 9         | 4,800  | 7,200  | 32,600 |
| 1/10         | 1,200  | 0      | 0      |
| 1/11         | 0      | 0      | 0      |
| 1/12         | 0      | 0      | 0      |
| 1/13         | 400    | 0      | 0      |
| 1/14         | 0      | 0      | 0      |
| 1/15         | 0      | 0      | 0      |
| 1/16         | 0      | 0      | 0      |
| 1/17         | 0      | 0      | 0      |
| 1/18         | 0      | 0      | 0      |
| 1/19         | 0      | 0      | 0      |
| 1/20         | 0      | 0      | 0      |
| 1/21         | 0      | 0      | 0      |
| 1/22         | 0      | 0      | 0      |
| 1/23         | 1,200  | 0      | 0      |
| 1/24         | 1,600  | 800    | 0      |
| 1/25         | 0      | 1,200  | 0      |
| 1/26         | 1,200  | 0      | 0      |
| 1/27         | 800    | 800    | 0      |
| 1/28         | 1,600  | 1,600  | 400    |

TABLE A-36. PROTOZOA (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST  |
|--------------|-------|-------|-------|
| 1/29         | 2,300 | 1,600 | 0     |
| 1/30         | 2,800 | 0     | 0     |
| 1/31         | 3,200 | 800   | 0     |
| 2/ 1         | 1,200 | 800   | 0     |
| 2/ 6         | 1,600 | 800   | 0     |
| 2/ 8         | 1,600 | 1,200 | 0     |
| 2/11         | 2,800 | 400   | 0     |
| 2/14         | 1,600 | 3,200 | 0     |
| 2/16         | 0     | 0     | 0     |
| 2/19         | 0     | 0     | 0     |
| 2/25         | 0     | 0     | 0     |
| 2/27         | 0     | 0     | 0     |
| 3/ 4         | 0     | 0     | 0     |
| 3/ 7         | 0     | 0     | 0     |
| 3/13         | 0     | 0     | 0     |
| 3/15         | 0     | 0     | 0     |
| 3/18         | 1,200 | 2,000 | 1,600 |
| 3/20         | 800   | 1,600 | 0     |
| 3/26         | 0     | 1,600 | 2,400 |
| 3/28         | 400   | 0     | 1,200 |
| 4/ 1         | 2,800 | 400   | 0     |
| 4/ 2         | 1,200 | 0     | 0     |
| 4/ 3         | 3,000 | 0     | 0     |
| 4/ 4         | 0     | 0     | 0     |
| 4/ 5         | 0     | 0     | 0     |
| 4/ 6         | 1,600 | 0     | 0     |
| 4/ 7         | 0     | 0     | 0     |
| 4/ 8         | 800   | 1,200 | 0     |
| 4/ 9         | 800   | 0     | 0     |
| 4/10         | 0     | 0     | 0     |
| 4/11         | 2,400 | 400   | 0     |
| 4/12         | 2,800 | 400   | 0     |
| 4/13         | 2,400 | 0     | 0     |
| 4/14         | 1,200 | 0     | 0     |
| 4/15         | 1,200 | 0     | 0     |
| 4/16         | 2,800 | 0     | 0     |
| 4/17         | 1,600 | 0     | 0     |
| 4/18         | 2,800 | 0     | 0     |
| 4/19         | 2,000 | 0     | 0     |
| 4/20         | 1,200 | 0     | 0     |
| 4/21         | 2,000 | 0     | 0     |

TABLE A-36. PROTOZOA (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST  |
|--------------|-------|-------|-------|
| 4/22         | 1,200 | 0     | 0     |
| 4/23         | 2,400 | 0     | 800   |
| 4/24         | 2,000 | 800   | 0     |
| 4/25         | 1,200 | 0     | 0     |
| 4/26         | 800   | 0     | 0     |
| 4/27         | 0     | 0     | 0     |
| 4/28         | 0     | 0     | 0     |
| 4/29         | 0     | 400   | 0     |
| 4/30         | 0     | 0     | 0     |
| 5/ 6         | 0     | 0     | 0     |
| 5/ 9         | 0     | 1,200 | 0     |
| 5/14         | 400   | 400   | 5,200 |
| 5/17         | 400   | 0     | 3,600 |
| 5/21         | 400   | 0     | 1,200 |
| 5/23         | 0     | 0     | 2,400 |
| 5/26         | 0     | 800   | 0     |
| 5/29         | 800   | 0     | 0     |
| 6/ 3         | 800   | 0     | 0     |
| 6/ 6         | 0     | 0     | 0     |
| 6/ 8         | 0     | 800   | 0     |
| 6/11         | 0     | 0     | 800   |
| 6/16         | 0     | 0     | 800   |
| 6/20         | 800   | 800   | 2,000 |
| 6/24         | 2,000 | 0     | 400   |
| 6/28         | 1,200 | 800   | 0     |
| 7/ 1         | 400   | 0     | 0     |
| 7/ 2         | 400   | 0     | 400   |
| 7/ 3         | 1,200 | 400   | 0     |
| 7/ 4         | 400   | 0     | 0     |
| 7/ 5         | 0     | 800   | 0     |
| 7/ 6         | 1,200 | 0     | 0     |
| 7/ 7         | 0     | 1,200 | 0     |
| 7/ 8         | 0     | 0     | 0     |
| 7/ 9         | 400   | 400   | 0     |
| 7/10         | 0     | 0     | 0     |
| 7/11         | 0     | 0     | 0     |
| 7/12         | 1,200 | 0     | 0     |
| 7/13         | 0     | 1,200 | 0     |
| 7/14         | 0     | 1,600 | 0     |
| 7/15         | 0     | 0     | 0     |

TABLE A-36. PROTOZOA (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/16                       | 0           | 0            | 0           |
| 7/17                       | 0           | 0            | 0           |
| 7/18                       | 0           | 2,400        | 2,400       |
| 7/19                       | 0           | 2,400        | 0           |
| 7/20                       | 0           | 0            | 0           |
| 7/21                       | 2,000       | 0            | 0           |
| 7/22                       | 800         | 2,000        | 800         |
| 7/23                       | 1,200       | 0            | 0           |
| 7/24                       | 800         | 0            | 0           |
| 7/25                       | 800         | 0            | 0           |
| 7/26                       | 0           | 0            | 0           |
| 7/27                       | 0           | 0            | 0           |
| 7/28                       | 0           | 0            | 0           |
| 7/29                       | 800         | 0            | 0           |
| 7/30                       | 0           | 0            | 0           |
| 8/ 5                       | 1,200       | 3,200        | 0           |
| 8/ 7                       | 0           | 0            | 0           |
| 8/11                       | 0           | 0            | 0           |
| 8/12                       | 800         | 0            | 0           |
| 8/20                       | 0           | 0            | 0           |
| 8/22                       | 3,200       | 600          | 0           |
| 8/26                       | 0           | 0            | 0           |
| 8/28                       | 0           | 0            | 0           |

TABLE A-37: BOTIFERS  
(count/ml)

| 1974<br>DATE | EAST  | SOUTH | WEST  |
|--------------|-------|-------|-------|
| 9/ 4         | 0     | 0     | 0     |
| 9/ 6         | 0     | 0     | 0     |
| 9/10         | 0     | 0     | 0     |
| 9/12         | 400   | 1,600 | 400   |
| 9/16         | 0     | 1,600 | 0     |
| 9/19         | 800   | 3,600 | 1,200 |
| 9/24         | 1,600 | 800   | 800   |
| 9/26         | 1,600 | 2,000 | 400   |
| 10/ 1        | 4,400 | 2,400 | 2,400 |
| 10/ 2        | 2,400 | 3,200 | 800   |
| 10/ 3        | 2,800 | 1,200 | 1,200 |
| 10/ 4        | 4,800 | 3,600 | 1,200 |
| 10/ 5        | 4,000 | 800   | 1,600 |
| 10/ 6        | 2,800 | 3,200 | 0     |
| 10/ 7        | 4,000 | 1,200 | 400   |
| 10/ 8        | 800   | 2,400 | 1,200 |
| 10/ 9        | 4,800 | 0     | 400   |
| 10/10        | 0     | 400   | 0     |
| 10/11        | 400   | 3,200 | 0     |
| 10/12        | 0     | 0     | 400   |
| 10/13        | 0     | 800   | 1,200 |
| 10/14        | 0     | 400   | 400   |
| 10/15        | 0     | 0     | 0     |
| 10/16        | 0     | 0     | 0     |
| 10/17        | 800   | 0     | 0     |
| 10/18        | 0     | 1,200 | 400   |
| 10/19        | 0     | 0     | 0     |
| 10/20        | 0     | 0     | 800   |
| 10/21        | 400   | 0     | 400   |
| 10/22        | 800   | 400   | 0     |
| 10/23        | 0     | 400   | 0     |
| 10/24        | 400   | 0     | 0     |
| 10/25        | 0     | 0     | 0     |
| 10/26        | 3,600 | 0     | 0     |
| 10/27        | 0     | 0     | 0     |
| 10/28        | 0     | 0     | 0     |
| 10/29        | 0     | 0     | 0     |
| 10/30        | 0     | 0     | 0     |
| 11/ 7        | 0     | 0     | 0     |
| 11/ 8        | 0     | 0     | 0     |
| 11/11        | 400   | 0     | 0     |

TABLE A-37. ROTIFERS (continued)  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 11/13                      | 0           | 0            | 400         |
| 11/19                      | 0           | 0            | 0           |
| 11/21                      | 0           | 0            | 0           |
| 11/25                      | 0           | 400          | 0           |
| 11/26                      | 0           | 0            | 0           |
| 12/ 4                      | 0           | 0            | 0           |
| 12/ 6                      | 400         | 400          | 0           |
| 12/ 9                      | 0           | 0            | 0           |
| 12/11                      | 0           | 0            | 0           |
| 12/17                      | 0           | 800          | 0           |
| 12/19                      | 0           | 800          | 0           |
| 12/23                      | 0           | 0            | 0           |
| 12/27                      | 0           | 0            | 0           |
| <u>1975</u>                |             |              |             |
| 1/ 3                       | 0           | 0            | 0           |
| 1/ 4                       | 400         | 0            | 0           |
| 1/ 5                       | 0           | 0            | 0           |
| 1/ 6                       | 0           | 0            | 0           |
| 1/ 7                       | 0           | 0            | 0           |
| 1/ 8                       | 0           | 0            | 0           |
| 1/ 9                       | 0           | 900          | 0           |
| 1/10                       | 0           | 0            | 0           |
| 1/11                       | 0           | 0            | 0           |
| 1/12                       | 0           | 0            | 0           |
| 1/13                       | 0           | 0            | 0           |
| 1/14                       | 0           | 0            | 0           |
| 1/15                       | 0           | 0            | 0           |
| 1/16                       | 0           | 0            | 0           |
| 1/17                       | 0           | 0            | 0           |
| 1/18                       | 0           | 0            | 0           |
| 1/19                       | 0           | 0            | 0           |
| 1/20                       | 0           | 0            | 0           |
| 1/21                       | 0           | 0            | 0           |
| 1/22                       | 0           | 0            | 0           |
| 1/23                       | 0           | 0            | 0           |
| 1/24                       | 0           | 0            | 0           |
| 1/25                       | 0           | 0            | 0           |
| 1/26                       | 0           | 0            | 0           |
| 1/27                       | 0           | 0            | 0           |
| 1/28                       | 0           | 0            | 0           |
| 1/29                       | 0           | 0            | 0           |

TABLE A-37. ROTIFERS (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST  |
|--------------|-------|-------|-------|
| 1/30         | 0     | 0     | 0     |
| 1/31         | 0     | 0     | 0     |
| 2/ 1         | 0     | 0     | 0     |
| 2/ 6         | 0     | 0     | 0     |
| 2/ 8         | 0     | 0     | 0     |
| 2/11         | 0     | 0     | 0     |
| 2/14         | 0     | 0     | 0     |
| 2/16         | 0     | 0     | 0     |
| 2/19         | 0     | 0     | 0     |
| 2/25         | 0     | 0     | 0     |
| 2/27         | 0     | 0     | 0     |
| 3/ 4         | 0     | 0     | 0     |
| 3/ 7         | 0     | 0     | 0     |
| 3/13         | 0     | 0     | 0     |
| 3/15         | 0     | 0     | 0     |
| 3/18         | 0     | 0     | 0     |
| 3/20         | 0     | 400   | 1,200 |
| 3/26         | 1,200 | 0     | 0     |
| 3/28         | 800   | 1,200 | 1,200 |
| 4/ 1         | 1,200 | 3,200 | 3,200 |
| 4/ 2         | 2,800 | 5,600 | 4,400 |
| 4/ 3         | 1,200 | 3,200 | 3,200 |
| 4/ 4         | 1,200 | 3,200 | 3,200 |
| 4/ 5         | 800   | 4,800 | 800   |
| 4/ 6         | 800   | 4,000 | 800   |
| 4/ 7         | 1,200 | 1,200 | 800   |
| 4/ 8         | 400   | 2,400 | 4,400 |
| 4/ 9         | 800   | 0     | 2,000 |
| 4/10         | 4,400 | 5,200 | 2,400 |
| 4/11         | 2,800 | 7,200 | 1,200 |
| 4/12         | 800   | 1,200 | 5,600 |
| 4/13         | 2,400 | 1,200 | 2,400 |
| 4/14         | 0     | 2,400 | 800   |
| 4/15         | 400   | 1,600 | 2,800 |
| 4/16         | 400   | 1,200 | 1,200 |
| 4/17         | 0     | 800   | 1,200 |
| 4/18         | 0     | 2,000 | 1,800 |
| 4/19         | 0     | 6,400 | 0     |
| 4/20         | 0     | 400   | 0     |
| 4/21         | 0     | 2,400 | 800   |
| 4/22         | 800   | 800   | 800   |



TABLE A-37: ROTIFERS (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/23                       | 0           | 2,800        | 800         |
| 4/24                       | 3,200       | 4,000        | 1,200       |
| 4/25                       | 800         | 1,600        | 1,200       |
| 4/26                       | 3,200       | 800          | 1,600       |
| 4/27                       | 0           | 1,200        | 400         |
| 4/28                       | 400         | 2,000        | 1,200       |
| 4/29                       | 1,200       | 800          | 0           |
| 4/30                       | 0           | 400          | 400         |
| 5/ 6                       | 0           | 0            | 0           |
| 5/ 9                       | 6,400       | 0            | 0           |
| 5/14                       | 3,200       | 0            | 0           |
| 5/17                       | 0           | 0            | 0           |
| 5/21                       | 1,200       | 0            | 0           |
| 5/23                       | 0           | 0            | 0           |
| 5/28                       | 7,600       | 800          | 0           |
| 5/29                       | 0           | 800          | 0           |
| 6/ 3                       | 7,600       | 400          | 0           |
| 6/ 6                       | 7,600       | 2,000        | 1,600       |
| 6/ 8                       | 0           | 0            | 0           |
| 6/11                       | 800         | 1,200        | 0           |
| 6/16                       | 2,400       | 0            | 2,000       |
| 6/20                       | 3,600       | 1,600        | 0           |
| 6/24                       | 800         | 7,200        | 3,200       |
| 6/28                       | 400         | 0            | 0           |
| 7/ 1                       | 0           | 0            | 800         |
| 7/ 2                       | 0           | 0            | 0           |
| 7/ 3                       | 0           | 0            | 0           |
| 7/ 4                       | 0           | 0            | 1,200       |
| 7/ 5                       | 0           | 0            | 1,200       |
| 7/ 6                       | 0           | 0            | 0           |
| 7/ 7                       | 0           | 0            | 0           |
| 7/ 8                       | 0           | 2,000        | 2,000       |
| 7/ 9                       | 0           | 800          | 0           |
| 7/10                       | 400         | 2,000        | 0           |
| 7/11                       | 0           | 0            | 0           |
| 7/12                       | 0           | 2,000        | 1,200       |
| 7/13                       | 0           | 1,600        | 0           |
| 7/14                       | 0           | 13,200       | 0           |
| 7/15                       | 0           | 0            | 0           |
| 7/16                       | 0           | 0            | 0           |
| 7/17                       | 0           | 0            | 0           |

TABLE A-37. ROTIFERS (continued)  
(count/ml)

| 1975<br>DATE | EAST  | SOUTH | WEST  |
|--------------|-------|-------|-------|
| 7/18         | 0     | 2,000 | 0     |
| 7/19         | 0     | 0     | 8,000 |
| 7/20         | 0     | 0     | 4,400 |
| 7/21         | 2,000 | 1,200 | 0     |
| 7/22         | 2,900 | 2,400 | 2,000 |
| 7/23         | 0     | 0     | 0     |
| 7/24         | 2,000 | 0     | 800   |
| 7/25         | 0     | 3,200 | 0     |
| 7/26         | 3,200 | 0     | 0     |
| 7/27         | 0     | 0     | 0     |
| 7/28         | 0     | 0     | 0     |
| 7/29         | 0     | 0     | 0     |
| 7/30         | 1,600 | 0     | 0     |
| 8/ 5         | 0     | 0     | 2,400 |
| 8/ 7         | 0     | 0     | 0     |
| 8/11         | 0     | 1,600 | 0     |
| 8/12         | 0     | 1,600 | 0     |
| 8/20         | 3,600 | 0     | 0     |
| 8/22         | 3,200 | 0     | 0     |
| 8/26         | 0     | 0     | 0     |
| 8/28         | 0     | 0     | 0     |

TABLE A-3H. CRYPTONUMAE  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>FAS</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|------------|--------------|-------------|
| 9/ 4                       | 0          | 0            | 0           |
| 9/ 6                       | 0          | 0            | 0           |
| 9/10                       | 0          | 0            | 0           |
| 9/12                       | 0          | 0            | 0           |
| 9/16                       | 0          | 0            | 0           |
| 9/19                       | 0          | 0            | 0           |
| 9/24                       | 0          | 8,400        | 2,400       |
| 9/26                       | 0          | 6,400        | 2,000       |
| 10/ 1                      | 0          | 16,400       | 800         |
| 10/ 2                      | 0          | 6,400        | 2,400       |
| 10/ 3                      | 400        | 3,200        | 0           |
| 10/ 4                      | 400        | 2,400        | 2,000       |
| 10/ 5                      | 0          | 2,400        | 1,600       |
| 10/ 6                      | 0          | 3,200        | 1,200       |
| 10/ 7                      | 0          | 4,000        | 2,400       |
| 10/ 8                      | 0          | 6,800        | 1,600       |
| 10/ 9                      | 800        | 9,600        | 2,800       |
| 10/10                      | 0          | 7,600        | 2,800       |
| 10/11                      | 400        | 2,000        | 800         |
| 10/12                      | 0          | 4,800        | 900         |
| 10/13                      | 0          | 2,400        | 0           |
| 10/14                      | 0          | 800          | 400         |
| 10/15                      | 0          | 1,200        | 0           |
| 10/16                      | 0          | 0            | 0           |
| 10/17                      | 0          | 0            | 0           |
| 10/18                      | 0          | 800          | 0           |
| 10/19                      | 3,200      | 2,000        | 800         |
| 10/20                      | 0          | 2,400        | 2,400       |
| 10/21                      | 2,000      | 3,200        | 1,200       |
| 10/22                      | 1,200      | 3,200        | 3,600       |
| 10/23                      | 1,600      | 3,200        | 0           |
| 10/24                      | 1,200      | 400          | 800         |
| 10/25                      | 800        | 2,000        | 2,400       |
| 10/26                      | 9,600      | 1,200        | 800         |
| 10/27                      | 2,800      | 2,800        | 400         |
| 10/28                      | 400        | 4,400        | 1,600       |
| 10/29                      | 2,800      | 4,000        | 1,600       |
| 10/30                      | 2,000      | 2,000        | 4,400       |
| 11/ 7                      | 500        | 800          | 0           |
| 11/ 8                      | 2,000      | 1,200        | 800         |
| 11/11                      | 800        | 1,200        | 1,600       |

TABLE A-38. CRYPTOMONAS (continued)  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 11/13                      | 2,800       | 800          | 800         |
| 11/19                      | 400         | 400          | 400         |
| 11/21                      | 9,200       | 5,200        | 2,400       |
| 11/25                      | 8,400       | 7,200        | 2,400       |
| 11/26                      | 4,800       | 2,400        | 3,600       |
| 12/ 4                      | 15,200      | 17,200       | 7,600       |
| 12/ 6                      | 20,800      | 14,400       | 10,400      |
| 12/ 9                      | 8,400       | 9,200        | 9,600       |
| 12/11                      | 6,400       | 8,800        | 7,600       |
| 12/17                      | 11,600      | 12,800       | 12,400      |
| 12/19                      | 8,000       | 9,600        | 11,200      |
| 12/23                      | 17,200      | 15,200       | 14,600      |
| 12/27                      | 8,000       | 8,000        | 4,400       |
| <u>1975</u>                |             |              |             |
| 1/ 3                       | 3,200       | 6,800        | 12,000      |
| 1/ 4                       | 800         | 1,200        | 3,600       |
| 1/ 5                       | 800         | 0            | 1,200       |
| 1/ 6                       | 400         | 0            | 0           |
| 1/ 7                       | 0           | 2,400        | 19,600      |
| 1/ 8                       | 0           | 4,800        | 18,000      |
| 1/ 9                       | 0           | 3,200        | 21,200      |
| 1/10                       | 3,200       | 1,600        | 22,400      |
| 1/11                       | 3,600       | 17,200       | 24,800      |
| 1/12                       | 7,600       | 18,000       | 28,000      |
| 1/13                       | 0           | 12,400       | 13,600      |
| 1/14                       | 8,400       | 13,200       | 18,000      |
| 1/15                       | 9,200       | 14,800       | 21,600      |
| 1/16                       | 5,600       | 18,400       | 28,400      |
| 1/17                       | 9,600       | 16,000       | 26,800      |
| 1/18                       | 3,600       | 15,200       | 32,800      |
| 1/19                       | 3,600       | 18,800       | 60,000      |
| 1/20                       | 3,600       | 14,800       | 17,600      |
| 1/21                       | 2,400       | 5,200        | 3,200       |
| 1/22                       | 4,400       | 15,600       | 6,600       |
| 1/23                       | 2,400       | 10,000       | 11,200      |
| 1/24                       | 7,200       | 15,200       | 23,600      |
| 1/25                       | 9,200       | 9,200        | 14,400      |
| 1/26                       | 6,000       | 7,200        | 9,600       |
| 1/27                       | 800         | 9,200        | 12,400      |
| 1/28                       | 4,000       | 8,800        | 12,400      |

TABLE A-38. CRYPTOMONAS (continued)  
(count/ml)

| 1973<br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|---------------------|-------------|--------------|-------------|
| 1/29                | 2,000       | 13,200       | 12,400      |
| 1/30                | 3,600       | 10,400       | 13,200      |
| 1/31                | 3,200       | 8,800        | 11,600      |
| 2/ 1                | 8,000       | 10,400       | 13,200      |
| 2/ 6                | 6,800       | 4,400        | 2,800       |
| 2/ 8                | 5,200       | 12,000       | 22,400      |
| 2/11                | 9,200       | 7,600        | 17,200      |
| 2/14                | 10,800      | 9,600        | 27,200      |
| 2/16                | 800         | 6,400        | 8,400       |
| 2/19                | 10,000      | 2,800        | 14,800      |
| 2/25                | 2,400       | 8,000        | 12,000      |
| 2/27                | 400         | 1,600        | 8,800       |
| 3/ 4                | 0           | 5,200        | 26,400      |
| 3/ 7                | 2,000       | 22,800       | 32,800      |
| 3/13                | 0           | 400          | 1,600       |
| 3/15                | 800         | 6,000        | 16,400      |
| 3/18                | 0           | 0            | 23,600      |
| 3/20                | 2,800       | 19,200       | 22,000      |
| 3/26                | 1,200       | 4,000        | 5,200       |
| 3/28                | 3,200       | 0            | 4,400       |
| 4/ 1                | 3,600       | 16,800       | 14,800      |
| 4/ 2                | 3,200       | 14,000       | 18,000      |
| 4/ 3                | 6,000       | 4,800        | 7,200       |
| 4/ 4                | 6,400       | 6,000        | 10,000      |
| 4/ 5                | 5,200       | 14,000       | 10,400      |
| 4/ 6                | 3,600       | 9,200        | 20,400      |
| 4/ 7                | 3,200       | 17,200       | 14,000      |
| 4/ 8                | 2,000       | 6,800        | 8,000       |
| 4/ 9                | 3,200       | 11,200       | 10,200      |
| 4/10                | 2,400       | 9,600        | 3,800       |
| 4/11                | 5,200       | 11,200       | 8,800       |
| 4/12                | 0           | 9,600        | 7,600       |
| 4/13                | 6,000       | 8,400        | 10,400      |
| 4/14                | 5,600       | 2,400        | 6,800       |
| 4/15                | 800         | 7,200        | 15,600      |
| 4/16                | 6,400       | 13,200       | 8,800       |
| 4/17                | 800         | 9,200        | 10,400      |
| 4/18                | 0           | 21,200       | 12,000      |
| 4/19                | 5,600       | 10,800       | 9,200       |
| 4/20                | 5,600       | 17,600       | 15,600      |

TABLE A-18. CRYPTOMONAS (cont. inued)  
(count/ml)

| <u>1973</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/21                       | 4,800       | 31,200       | 17,200      |
| 4/22                       | 0           | 21,600       | 12,000      |
| 4/23                       | 2,800       | 26,400       | 8,800       |
| 4/24                       | 3,600       | 20,800       | 4,800       |
| 4/25                       | 2,000       | 23,600       | 7,600       |
| 4/26                       | 9,200       | 24,800       | 8,400       |
| 4/27                       | 4,800       | 19,200       | 15,200      |
| 4/28                       | 7,600       | 26,000       | 12,800      |
| 4/29                       | 4,800       | 24,800       | 3,600       |
| 4/30                       | 3,600       | 22,600       | 6,400       |
| 5/ 6                       | 6,400       | 10,400       | 16,800      |
| 5/ 9                       | 3,600       | 21,200       | 11,200      |
| 5/14                       | 3,600       | 3,200        | 19,200      |
| 5/17                       | 1,200       | 2,400        | 12,800      |
| 5/21                       | 3,600       | 4,400        | 1,200       |
| 5/23                       | 0           | 0            | 1,200       |
| 5/26                       | 2,000       | 800          | 9,200       |
| 5/29                       | 0           | 800          | 1,600       |
| 6/ 3                       | 0           | 0            | 7,200       |
| 6/ 6                       | 800         | 800          | 2,000       |
| 6/ 8                       | 800         | 0            | 2,800       |
| 6/11                       | 400         | 1,600        | 2,000       |
| 6/16                       | 0           | 0            | 3,200       |
| 6/20                       | 0           | 0            | 0           |
| 6/24                       | 0           | 0            | 0           |
| 6/28                       | 0           | 0            | 0           |
| 7/ 1                       | 0           | 0            | 0           |
| 7/ 2                       | 0           | 0            | 0           |
| 7/ 3                       | 0           | 0            | 0           |
| 7/ 4                       | 0           | 0            | 0           |
| 7/ 5                       | 0           | 0            | 0           |
| 7/ 6                       | 0           | 0            | 0           |
| 7/ 7                       | 0           | 0            | 0           |
| 7/ 8                       | 0           | 0            | 0           |
| 7/ 9                       | 0           | 400          | 0           |
| 7/10                       | 0           | 0            | 0           |
| 7/11                       | 0           | 1,200        | 0           |
| 7/12                       | 0           | 0            | 0           |
| 7/13                       | 0           | 0            | 0           |
| 7/14                       | 0           | 0            | 0           |

TABLE A-38. CRYPTOSPORIDIA (continued)  
(count/ml)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/15                       | 0           | 0            | 0           |
| 7/16                       | 0           | 0            | 0           |
| 7/17                       | 0           | 0            | 0           |
| 7/18                       | 0           | 0            | 0           |
| 7/19                       | 0           | 2,800        | 0           |
| 7/20                       | 0           | 0            | 0           |
| 7/21                       | 0           | 3,200        | 0           |
| 7/22                       | 0           | 1,200        | 0           |
| 7/23                       | 0           | 800          | 6,400       |
| 7/24                       | 0           | 0            | 0           |
| 7/25                       | 0           | 2,800        | 0           |
| 7/26                       | 2,800       | 0            | 0           |
| 7/27                       | 0           | 4,000        | 0           |
| 7/28                       | 0           | 0            | 0           |
| 7/29                       | 0           | 2,400        | 0           |
| 7/30                       | 0           | 0            | 0           |
| 8/ 5                       | 0           | 0            | 0           |
| 8/ 7                       | 0           | 0            | 6,800       |
| 8/11                       | 0           | 6,400        | 3,600       |
| 8/12                       | 0           | 0            | 0           |
| 8/20                       | 0           | 2,000        | 0           |
| 8/22                       | 0           | 6,400        | 0           |
| 8/26                       | 0           | 0            | 0           |
| 8/28                       | 0           | 0            | 0           |



TABLE A-19. MALLOPHIAS  
(count/ml)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 9/ 4                       | 0           | 0            | 0           |
| 9/ 6                       | 0           | 0            | 0           |
| 9/10                       | 0           | 0            | 0           |
| 9/12                       | 0           | 0            | 0           |
| 9/16                       | 0           | 0            | 0           |
| 9/19                       | 0           | 0            | 0           |
| 9/24                       | 0           | 0            | 0           |
| 9/25                       | 0           | 0            | 0           |
| 10/ 1                      | 0           | 0            | 0           |
| 10/ 2                      | 0           | 0            | 800         |
| 10/ 3                      | 0           | 400          | 400         |
| 10/ 4                      | 0           | 1,200        | 400         |
| 10/ 5                      | 0           | 0            | 1,200       |
| 10/ 6                      | 1,600       | 2,000        | 800         |
| 10/ 7                      | 400         | 800          | 400         |
| 10/ 8                      | 1,200       | 800          | 2,800       |
| 10/ 9                      | 0           | 1,600        | 400         |
| 10/10                      | 1,600       | 2,800        | 400         |
| 10/11                      | 1,200       | 4,000        | 0           |
| 10/12                      | 800         | 2,400        | 2,000       |
| 10/13                      | 2,400       | 4,000        | 1,200       |
| 10/14                      | 0           | 2,200        | 800         |
| 10/15                      | 2,800       | 400          | 800         |
| 10/16                      | 800         | 2,800        | 1,600       |
| 10/17                      | 0           | 1,600        | 800         |
| 10/18                      | 2,000       | 6,000        | 1,200       |
| 10/19                      | 2,000       | 1,600        | 1,600       |
| 10/20                      | 0           | 2,800        | 1,600       |
| 10/21                      | 0           | 2,000        | 2,000       |
| 10/22                      | 400         | 4,000        | 2,800       |
| 10/23                      | 0           | 3,200        | 400         |
| 10/24                      | 400         | 800          | 400         |
| 10/25                      | 400         | 800          | 1,200       |
| 10/26                      | 0           | 800          | 1,600       |
| 10/27                      | 2,000       | 6,000        | 0           |
| 10/28                      | 800         | 6,400        | 2,800       |
| 10/29                      | 800         | 5,400        | 1,200       |
| 10/30                      | 0           | 6,000        | 1,600       |
| 11/ 7                      | 800         | 0            | 400         |
| 11/ 8                      | 1,200       | 2,000        | 1,200       |
| 11/11                      | 800         | 2,000        | 0           |
| 11/13                      | 800         | 1,200        | 1,200       |

TABLE A-39. MALLOPHAGS (continued)  
(count/mi)

| <u>1974</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 11/19                      | 2,400       | 3,600        | 1,200       |
| 11/21                      | 2,400       | 1,600        | 0           |
| 11/23                      | 3,600       | 2,400        | 400         |
| 11/26                      | 3,200       | 2,400        | 0           |
| 12/ 4                      | 0           | 1,600        | 7,600       |
| 12/ 6                      | 0           | 400          | 0           |
| 12/ 9                      | 2,400       | 1,200        | 800         |
| 12/11                      | 0           | 0            | 800         |
| 12/17                      | 3,200       | 400          | 400         |
| 12/19                      | 0           | 0            | 0           |
| 12/23                      | 0           | 400          | 0           |
| 12/27                      | 0           | 0            | 0           |
| <u>1973</u>                |             |              |             |
| 1/ 3                       | 1,600       | 400          | 0           |
| 1/ 4                       | 400         | 0            | 0           |
| 1/ 5                       | 800         | 0            | 0           |
| 1/ 6                       | 2,400       | 400          | 11,600      |
| 1/ 7                       | 800         | 1,200        | 0           |
| 1/ 8                       | 0           | 0            | 0           |
| 1/ 9                       | 2,400       | 1,200        | 0           |
| 1/10                       | 1,600       | 1,200        | 0           |
| 1/11                       | 800         | 1,600        | 0           |
| 1/12                       | 800         | 400          | 0           |
| 1/13                       | 0           | 0            | 0           |
| 1/14                       | 0           | 0            | 0           |
| 1/15                       | 0           | 0            | 0           |
| 1/16                       | 800         | 400          | 0           |
| 1/17                       | 0           | 0            | 0           |
| 1/18                       | 0           | 0            | 0           |
| 1/19                       | 2,000       | 400          | 0           |
| 1/20                       | 1,200       | 800          | 0           |
| 1/21                       | 400         | 400          | 0           |
| 1/22                       | 0           | 0            | 0           |
| 1/23                       | 0           | 0            | 0           |
| 1/24                       | 800         | 0            | 0           |
| 1/25                       | 400         | 800          | 0           |
| 1/26                       | 0           | 800          | 0           |
| 1/27                       | 400         | 800          | 0           |
| 1/28                       | 0           | 0            | 0           |
| 1/29                       | 800         | 0            | 0           |
| 1/30                       | 0           | 800          | 0           |

TABLE A-19. MALLOPHIAR (continued)  
(count/ml)

| <u>1973</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 1/31                       | 800         | 400          | 0           |
| 2/ 1                       | 400         | 0            | 1,200       |
| 2/ 6                       | 1,200       | 800          | 0           |
| 2/ 8                       | 1,200       | 900          | 0           |
| 2/11                       | 0           | 0            | 0           |
| 2/14                       | 0           | 0            | 0           |
| 2/16                       | 0           | 0            | 0           |
| 2/19                       | 0           | 0            | 0           |
| 2/25                       | 0           | 0            | 800         |
| 2/27                       | 0           | 0            | 0           |
| 3/ 4                       | 0           | 0            | 0           |
| 3/ 7                       | 0           | 0            | 0           |
| 3/13                       | 0           | 0            | 0           |
| 3/15                       | 0           | 0            | 0           |
| 3/18                       | 0           | 0            | 0           |
| 3/20                       | 0           | 0            | 0           |
| 3/26                       | 0           | 0            | 0           |
| 3/28                       | 0           | 0            | 0           |
| 4/ 1                       | 0           | 0            | 0           |
| 4/ 2                       | 0           | 0            | 0           |
| 4/ 3                       | 0           | 0            | 0           |
| 4/ 4                       | 0           | 0            | 0           |
| 4/ 5                       | 0           | 0            | 0           |
| 4/ 6                       | 0           | 0            | 0           |
| 4/ 7                       | 0           | 0            | 0           |
| 4/ 8                       | 0           | 0            | 0           |
| 4/ 9                       | 0           | 0            | 0           |
| 4/10                       | 0           | 0            | 0           |
| 4/11                       | 0           | 0            | 0           |
| 4/12                       | 0           | 0            | 0           |
| 4/13                       | 0           | 0            | 0           |
| 4/14                       | 0           | 0            | 0           |
| 4/15                       | 0           | 0            | 0           |
| 4/16                       | 0           | 0            | 0           |
| 4/17                       | 0           | 0            | 0           |
| 4/18                       | 0           | 0            | 0           |
| 4/19                       | 0           | 0            | 0           |
| 4/20                       | 0           | 0            | 0           |
| 4/21                       | 0           | 0            | 1,200       |
| 4/22                       | 0           | 0            | 0           |
| 4/23                       | 1,200       | 0            | 1,200       |

TABLE A-39. HALLORUHAE (continued)  
(count/ml)

| <u>1973</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 4/24                       | 1,600       | 800          | 2,400       |
| 4/25                       | 1,200       | 800          | 1,600       |
| 4/26                       | 2,800       | 1,200        | 0           |
| 4/27                       | 800         | 1,200        | 4,000       |
| 4/28                       | 1,200       | 1,600        | 4,800       |
| 4/29                       | 1,200       | 1,200        | 3,000       |
| 4/30                       | 1,600       | 1,200        | 1,200       |
| 5/ 6                       | 2,400       | 800          | 860         |
| 5/ 9                       | 800         | 0            | 0           |
| 5/14                       | 800         | 4,800        | 3,600       |
| 5/17                       | 0           | 1,200        | 2,400       |
| 5/21                       | 0           | 800          | 1,600       |
| 5/23                       | 1,600       | 0            | 0           |
| 5/26                       | 0           | 4,400        | 2,800       |
| 5/29                       | 0           | 1,200        | 2,400       |
| 6/ 3                       | 0           | 0            | 0           |
| 6/ 6                       | 0           | 0            | 1,200       |
| 6/ 8                       | 0           | 800          | 1,200       |
| 6/11                       | 0           | 2,000        | 800         |
| 6/16                       | 3,600       | 1,200        | 0           |
| 6/20                       | 400         | 0            | 0           |
| 6/24                       | 800         | 0            | 2,400       |
| 6/28                       | 0           | 0            | 0           |
| 7/ 1                       | 3,200       | 0            | 0           |
| 7/ 2                       | 400         | 0            | 2,400       |
| 7/ 3                       | 0           | 0            | 0           |
| 7/ 4                       | 0           | 0            | 0           |
| 7/ 5                       | 400         | 0            | 0           |
| 7/ 6                       | 1,200       | 0            | 0           |
| 7/ 7                       | 400         | 0            | 400         |
| 7/ 8                       | 0           | 0            | 0           |
| 7/ 9                       | 0           | 0            | 0           |
| 7/10                       | 0           | 0            | 0           |
| 7/11                       | 0           | 0            | 0           |
| 7/12                       | 0           | 0            | 0           |
| 7/13                       | 0           | 0            | 0           |
| 7/14                       | 0           | 0            | 0           |
| 7/15                       | 0           | 0            | 0           |
| 7/16                       | 0           | 0            | 0           |
| 7/17                       | 0           | 0            | 0           |
| 7/18                       | 0           | 1,600        | 0           |

TABLE A-39. MALLONGHAS (continued)  
(count/mt)

| <u>1975</u><br><u>DATE</u> | <u>EAST</u> | <u>SOUTH</u> | <u>WEST</u> |
|----------------------------|-------------|--------------|-------------|
| 7/19                       | 0           | 1,600        | 0           |
| 7/20                       | 0           | 2,400        | 0           |
| 7/21                       | 0           | 800          | 0           |
| 7/22                       | 0           | 1,200        | 0           |
| 7/23                       | 0           | 2,000        | 0           |
| 7/24                       | 0           | 0            | 0           |
| 7/25                       | 0           | 0            | 0           |
| 7/26                       | 0           | 0            | 0           |
| 7/27                       | 0           | 0            | 0           |
| 7/28                       | 0           | 0            | 0           |
| 7/29                       | 0           | 0            | 0           |
| 7/30                       | 0           | 0            | 0           |
| 8/ 3                       | 0           | 0            | 0           |
| 8/ 7                       | 0           | 1,600        | 0           |
| 8/11                       | 1,600       | 800          | 0           |
| 8/12                       | 0           | 0            | 0           |
| 8/20                       | 0           | 0            | 0           |
| 8/22                       | 0           | 0            | 0           |
| 8/26                       | 2,400       | 0            | 0           |
| 8/28                       | 0           | 0            | 0           |

TABLE A-40. WEATHER DATA.

| DATE  | ICE<br>FORMATION | AIR<br>TEMP<br>(°C) | SKY        | WIND     | PRECIPITATION |        |
|-------|------------------|---------------------|------------|----------|---------------|--------|
|       |                  |                     |            |          | Type          | Inches |
| 9/ 4  |                  | 19                  | Clear      | Slight   | "             |        |
| 9/ 6  |                  | 16                  | Cloudy     | None     | "             |        |
| 9/10  |                  | 28                  | Clear      | Slight   | Fog           |        |
| 9/12  |                  | 14                  | Overcast   | Slight   | Mist          |        |
| 9/16  |                  | 18                  | Pt. Cloudy | None     |               | 0.04   |
| 9/19  |                  | 23                  | Overcast   | Slight   |               |        |
| 9/24  |                  | 16                  | Overcast   | 11 mph   |               |        |
| 9/26  |                  | 25                  | Clear      | Slight   | Fog           |        |
| 10/ 1 |                  | 23                  | Pt. Cloudy | Slight   | "             |        |
| 10/ 2 |                  | 16                  | Clear      | 10 mph   | "             |        |
| 10/ 3 |                  | 15                  | Clear      | 12 mph   | "             |        |
| 10/ 4 |                  | 22                  | Clear      | 25 mph   | "             |        |
| 10/ 5 |                  | 16                  | Cloudy     | 9-14 mph | Lt. Rain      | Trace  |
| 10/ 6 |                  | 15                  | Cloudy     | 14 mph   | Rain          | 1.51   |
| 10/ 7 |                  | 16                  | Pt. Cloudy | None     | Lt. Rain      | 0.16   |
| 10/ 8 |                  | 19                  | Clear      | Light    | "             |        |
| 10/ 9 |                  | 19                  | Clear      | Light    | "             |        |
| 10/10 |                  | 20                  | Clear      | Slight   | "             |        |
| 10/11 |                  | 20                  | Cloudy     | Slight   | "             |        |
| 10/12 |                  | 17                  | Cloudy     | Light    | Rain          | 0.69   |
| 10/13 |                  | 18                  | Cloudy     | Light    | Rain          | 1.08   |
| 10/14 |                  | 14                  | Cloudy     | 12 mph   | Rain          | 0.40   |
| 10/15 |                  | 16                  | Cloudy     | None     | "             |        |
| 10/16 |                  | 18                  | Clear      | None     | "             |        |
| 10/17 |                  | 20                  | Clear      | None     | "             |        |
| 10/18 |                  | 16                  | Pt. Cloudy | 14 mph   | "             |        |
| 10/19 |                  | 16                  | Clear      | None     | "             |        |
| 10/20 |                  | 15                  | Clear      | None     | "             |        |
| 10/21 |                  | 17                  | Clear      | 10 mph   | "             |        |
| 10/22 |                  | 20                  | Clear      | 10 mph   | "             |        |
| 10/23 |                  | 16                  | Cloudy     | None     | Drizzle       | 0.02   |
| 10/24 |                  | 15                  | Cloudy     | None     | "             | Trace  |
| 10/25 |                  | 17                  | Cloudy     | None     | Rain          | Trace  |
| 10/26 |                  | 18                  | Clear      | None     | Rain          | Trace  |
| 10/27 |                  | 21                  | Pt. Cloudy | 10 mph   | Rain          | Trace  |
| 10/28 |                  | 16                  | Cloudy     | 14 mph   | "             |        |
| 10/29 |                  | 20                  | Cloudy     | 10 mph   | Rain          | 0.33   |
| 10/30 |                  | 20                  | Pt. Cloudy | 20 mph   | "             |        |
| 11/ 7 |                  | 10                  | Pt. Cloudy | None     | "             |        |
| 11/ 8 |                  | 16                  | Clear      | 9 mph    | "             |        |

1 inch = 2.54 cm

TABLE A-40: WEATHER DATA (continued)

| DATE  | ICE<br>FORMATION | AIR<br>TEMP<br>(°C) | SKY        | WIND      | PRECIPITATION |        |
|-------|------------------|---------------------|------------|-----------|---------------|--------|
|       |                  |                     |            |           | Type          | Inches |
| 11/11 |                  | 13                  | Pt. Cloudy | 9-12 mph  |               |        |
| 11/13 |                  | 9                   | Pt. Cloudy | 11-22 mph | Snow flurries |        |
| 11/19 |                  | 19.5                | Pt. Cloudy | 16 mph    |               |        |
| 11/21 |                  | 13                  | Clear      | None      | "             |        |
| 11/25 |                  | 14                  | Clear      | None      | "             |        |
| 11/26 |                  | 10                  | Clear      | 18 mph    | "             |        |
| 12/ 4 | Frozen           | 11                  | Clear      | None      | "             |        |
| 12/ 6 |                  | 8                   | Cloudy     | None      | Rain          | 0.01   |
| 12/ 9 | Part. Frozen     | 14                  | Clear      | None      | "             |        |
| 12/11 |                  | 12                  | Cloudy     | None      | Rain          | 0.24   |
| 12/17 | Frozen           | 12                  | Clear      | None      | Snow          | Trace  |
| 12/19 | Frozen           | 4                   | Overcast   | None      | Snow          | 0.4    |
| 12/23 | Frozen           | 5                   | Clear      | None      | "             |        |
| 12/27 | Frozen           | 5                   | Overcast   | None      | Snow          | Trace  |
| 1975  |                  |                     |            |           |               |        |
| 1/ 3  | Frozen           | 1                   | Clear      | 12 mph    | Snow          | 3.75   |
| 1/ 4  | Frozen           | 7                   | Clear      | None      | "             |        |
| 1/ 5  | Frozen           | 4                   | Overcast   | 15 mph    | "             |        |
| 1/ 6  | Frozen           | 6                   | Pt. Cloudy | 22 mph    | Rain          | 0.14   |
| 1/ 7  |                  | 6                   | Pt. Cloudy | None      | "             |        |
| 1/ 8  | Ice Cover        | 6                   | Cloudy     | None      | "             |        |
| 1/ 9  | Ice Cover        | 5                   | Sunny      | 30 mph    | "             |        |
| 1/10  |                  | 5                   | Cloudy     | 24 mph    | Rain          | 0.36   |
| 1/11  |                  | 5                   | Clear      | 27 mph    | Rain          | 0.20   |
| 1/12  | Ice Cover        | 3                   | Clear      | 27 mph    | "             |        |
| 1/13  | Ice Cover        | -1                  | Sunny      | 27 mph    | "             |        |
| 1/14  | Ice Cover        | 0                   | Pt. Cloudy | 11 mph    | "             |        |
| 1/15  | Ice Cover        | 11                  | Sunny      | 13 mph    | "             |        |
| 1/16  | Ice Cover        | 5                   | Clear      | 13 mph    | "             |        |
| 1/17  | Ice Cover        | 3                   | Cloudy     | 10 mph    | "             |        |
| 1/18  |                  | 7                   | Pt. Cloudy | 10 mph    | "             |        |
| 1/19  | Frozen           | 1                   | Cloudy     | 14 mph    | "             |        |
| 1/20  | Frozen           | 3                   | Cloudy     | 12 mph    | Snow          | 0.8    |
| 1/21  | Ice Cover        | 6                   | Sunny      | 17 mph    | snow          | Trace  |
| 1/22  | Ice Cover        | 1                   | Clear      | 17 mph    | "             |        |
| 1/23  | Ice Cover        | 7                   | Clear      | 12 mph    | "             |        |
| 1/24  | Ice Cover        | 7                   | Cloudy     | 11 mph    | "             |        |
| 1/25  |                  | 4                   | Sunny      | 24 mph    | Rain          | 0.02   |
| 1/26  |                  | 8                   | Cloudy     | 10 mph    | "             |        |
| 1/27  |                  | 8                   | Pt. Cloudy | 4 mph     | "             |        |
| 1/28  |                  | 5                   | Cloudy     | 19 mph    | "             |        |

1 inch = 2.54 cm



TABLE A-40: Weather Data (continued)

| DATE | ICE<br>FORMATION | AIR<br>TEMP<br>(°C) | SKY        | WIND      | PRECIPITATION |        |
|------|------------------|---------------------|------------|-----------|---------------|--------|
|      |                  |                     |            |           | Type          | Inches |
| 1/29 |                  | 5                   | Cloudy     | 15 mph    | -             |        |
| 1/30 |                  | 3                   | Cloudy     |           | Rain          | 0.05   |
| 1/31 |                  | 3                   | Cloudy     | None      | Misty Rain    | 0.78   |
| 2/ 1 |                  | 4                   | Cloudy     |           | Rain          | Trace  |
| 2/ 5 | Frozen           | -5                  | Sunny      | 14 mph    | Snow          | 0.1    |
| 2/ 8 | Frozen           | -1                  | Cloudy     | 12 mph    | -             |        |
| 2/11 | Ice Cover        | 5                   | Cloudy     | None      | Rain          | Trace  |
| 2/14 | Ice Cover        | 2                   | Cloudy     | None      | Snow          | Trace  |
| 2/16 | Ice Cover        | -1                  | Cloudy     | None      | -             |        |
| 2/19 | Ice Cover        | 9                   | Clear      | None      | Snow          | Trace  |
| 2/25 | Ice Cover        | 7                   | Clear      | 13 mph    | -             |        |
| 2/27 | Ice Cover        | 7                   | Cloudy     | 14 mph    | -             |        |
| 3/ 4 |                  | 11                  | Pt. Cloudy | None      | -             |        |
| 3/ 7 |                  | 8                   | Pt. Cloudy | 17 mph    | Rain          | 0.01   |
| 3/13 | Ice Cover        | -                   | Clear      | None      | -             |        |
| 3/15 |                  | 4                   | Overcast   | None      | -             |        |
| 3/18 |                  | 11                  | Cloudy     | None      | Rain          | Trace  |
| 3/20 |                  | 17                  | Cloudy     | 12 mph    | -             |        |
| 3/26 |                  | 7                   | Cloudy     | 13-22 mph | Sleet         | Trace  |
| 3/28 |                  | 6                   | Cloudy     | 11 mph    | Snow          | Trace  |
| 4/ 1 |                  | 7                   | Cloudy     | 16 mph    | -             |        |
| 4/ 2 |                  | 4                   | Snow       | None      | Snow          | 0.3    |
| 4/ 3 |                  | 9.5                 | Clear      | None      | Snow          | 0.7    |
| 4/ 4 |                  | 12                  | Clear      | 9 mph     | -             |        |
| 4/ 5 |                  | 12                  | Clear      | 14 mph    | -             |        |
| 4/ 6 |                  | 9                   | Cloudy     | None      | -             |        |
| 4/ 7 |                  | 8.5                 | Cloudy     | 15 mph    | -             |        |
| 4/ 8 |                  | 9.5                 | Cloudy     | 16-23 mph | Rain          | 0.18   |
| 4/ 9 |                  | 15.5                | Clear      | None      | Rain          | Trace  |
| 4/10 |                  | 8                   | Cloudy     | None      | -             |        |
| 4/11 |                  | 10                  | Sunny      | 11 mph    | -             |        |
| 4/12 |                  | -                   | Clear      | None      | -             |        |
| 4/13 |                  | 8                   | Cloudy     | None      | Lt. Rain      | Trace  |
| 4/14 |                  | 8                   | Cloudy     | None      | Rain          | 0.55   |
| 4/15 |                  | 13                  | Cloudy     | None      | Rain          | 0.01   |
| 4/16 |                  | 13                  | Clear      | None      | -             |        |
| 4/17 |                  | 16                  | Clear      | 11 mph    | -             |        |
| 4/18 |                  | 13                  | Overcast   | 11 mph    | Rain          | 0.04   |
| 4/19 |                  | 5                   | Clear      | 14 mph    | Rain          | 0.02   |
| 4/20 |                  | 8                   | Clear      | None      | -             |        |

1 inch = 2.54 cm

TABLE A-40. WEATHER DATA (continued)

| DATE | ICE<br>FORMATION | AIR<br>TEMP<br>(°C) | SKY        | WIND     | PRECIPITATION |        |
|------|------------------|---------------------|------------|----------|---------------|--------|
|      |                  |                     |            |          | Type          | Inches |
| 4/21 |                  | 12                  | Clear      | 14 mph   | "             |        |
| 4/22 |                  | 14                  | Clear      | 12 mph   | "             |        |
| 4/23 |                  | 21                  | Cloudy     | 15 mph   | Rain          | 0.25   |
| 4/24 |                  | 17                  | Pt. Cloudy | None     | Rain          | 0.37   |
| 4/25 |                  | 12                  | Heavy Fog  | None     | Rain          | 0.44   |
| 4/26 |                  | 21                  | Overcast   | 13 mph   | "             |        |
| 4/27 |                  | 22                  | Cloudy     | 9-11 mph | Rain          | Trace  |
| 4/28 |                  | 12.5                | Clear      | 13 mph   | Rain          | 0.13   |
| 4/29 |                  | 13                  | Clear      | None     | "             |        |
| 4/30 |                  | 12                  | Sunny      | 13 mph   | "             |        |
| 5/ 6 |                  | 20                  | Cloudy     | 9 mph    | "             |        |
| 5/ 9 |                  | 22                  | Pt. Cloudy | None     | Rain          | 0.03   |
| 5/14 |                  | -                   | Clear      | None     | Rain          | 0.08   |
| 5/17 |                  | 17                  | Clear      | None     | "             |        |
| 5/21 |                  | 19                  | Overcast   | None     | "             |        |
| 5/23 |                  | -                   | Overcast   | None     | Rain          | 1.37   |
| 5/26 |                  | 19                  | Overcast   | 31 mph   | Rain          | 0.77   |
| 5/29 |                  | 20                  | Overcast   | None     | Rain          | 0.93   |
| 6/ 3 |                  | 20                  | Clear      | None     | Rain          | 0.75   |
| 6/ 6 |                  | 20                  | Clear      | None     | "             |        |
| 6/ 8 |                  | 24                  | Overcast   | 15 mph   | "             |        |
| 6/11 |                  | 23                  | Pt. Cloudy | 13 mph   | Rain          | 1.23   |
| 6/16 |                  | 23                  | Overcast   | 13 mph   | "             |        |
| 6/20 |                  | 25                  | Clear      | None     | "             |        |
| 6/24 |                  | 29                  | Pt. Cloudy | None     | "             |        |
| 6/28 |                  | 28                  | Pt. Cloudy | None     | "             |        |
| 7/ 1 |                  | 28                  | Overcast   | None     | "             |        |
| 7/ 2 |                  | 21                  | Overcast   | None     | "             |        |
| 7/ 3 |                  | 27                  | Hazy       | None     | "             |        |
| 7/ 4 |                  | -                   | Hazy       | None     | "             |        |
| 7/ 5 |                  | 28                  | Clear      | None     | "             |        |
| 7/ 6 |                  | 29                  | Clear      | None     | "             |        |
| 7/ 7 |                  | 29                  | Pt. Cloudy | None     | "             |        |
| 7/ 8 |                  | 29                  | Clear      | None     | "             |        |
| 7/ 9 |                  | 30                  | Pt. Cloudy | None     | Rain          | 0.06   |
| 7/10 |                  | 32                  | Clear      | 10 mph   | "             |        |
| 7/11 |                  | 28                  | Clear      | 17 mph   | "             |        |
| 7/12 |                  | 28                  | Clear      | None     | Rain          | Trace  |
| 7/13 |                  | 27                  | Pt. Cloudy | None     | "             |        |
| 7/14 |                  | 28                  | Clear      | None     | "             |        |
| 7/15 |                  | 28                  | Clear      | 14 mph   | "             |        |

1 inch = 2.54 cm

TABLE A-40. WEATHER DATA (continued)

| DATE | ICE<br>FORMATION | AIR<br>TEMP<br>(°C) | SKY        | WIND   | PRECIPITATION |        |
|------|------------------|---------------------|------------|--------|---------------|--------|
|      |                  |                     |            |        | TYPE          | Inches |
| 7/16 |                  | 23                  | Clear      | 13 mph | "             |        |
| 7/17 |                  | 28                  | Clear      | 19 mph | "             |        |
| 7/18 |                  | 26                  | Overcast   | 18 mph | "             |        |
| 7/19 |                  | 27                  | Pt. Cloudy | 18 mph | Rain          | Trace  |
| 7/20 |                  | 20                  | Cloudy     | None   | Rain          | 0.36   |
| 7/21 |                  | 26                  | Pt. Cloudy | None   | "             |        |
| 7/22 |                  | 22                  | Overcast   | None   | "             |        |
| 7/23 |                  | 28                  | Clear      | None   | "             |        |
| 7/24 |                  | 25                  | Pt. Cloudy | None   | "             |        |
| 7/25 |                  | 26                  | Clear      | None   | Rain          | 0.01   |
| 7/26 |                  | 27                  | Pt. Cloudy | None   | "             |        |
| 7/27 |                  | 29                  | Clear      | None   | "             |        |
| 7/28 |                  | 31                  | Clear      | None   | "             |        |
| 7/29 |                  | 29                  | Clear      | None   | "             |        |
| 7/30 |                  | 29                  | Clear      | None   | "             |        |
| 8/ 5 |                  | "                   | Clear      | None   | "             |        |
| 8/ 7 |                  | 24                  | Clear      | None   | "             |        |
| 8/11 |                  | 28                  | Clear      | None   | "             |        |
| 8/12 |                  | "                   | Pt. Cloudy | None   | "             |        |
| 8/20 |                  | 23                  | Clear      | None   | "             |        |
| 8/22 |                  | 28                  | Clear      | None   | Rain          | Trace  |
| 8/26 |                  | 19                  | Overcast   | None   | "             |        |
| 8/28 |                  | 21                  | Overcast   | None   | Rain          | 0.14   |
|      |                  |                     |            |        | Rain          | 0.08   |

1 inch = 2.54 cm